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NFkB-p65 (Phospho Ser536) Rabbit pAb

CatalogNo: YP0191 Orthogonal Validated O Comparable Abs

Key Features

Host Species • Rabbit	Reactivity Human,Mouse,Rat,Monkey 	Applications IF,WB,IHC,IP,ELISA
MW • 60kD (Observed)	Isotype • IgG	

Recommended Dilution Ratios

IF 1:50-200 WB 1:500-1:2000 IHC 1:100-1:300 IP 2-5 ug/mg lysate ELISA 1:10000 Not yet tested in other applications

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

ImmunogenThe antiserum was produced against synthesized peptide derived from human NF-
kappaB p65 around the phosphorylation site of Ser536. AA range:502-551

Specificity

Phospho-NFκB-p65 (S536) Polyclonal Antibody detects endogenous levels of NFκB-p65 protein only when phosphorylated at S536.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):FSsIA

Target Information

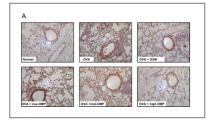
Gene name	RELA		
Protein Name	Transcription factor p65 Organism	Gene ID	UniProt ID
	••• 9		0
	Human	<u>5970;</u>	<u>Q04206;</u>
	Mouse	<u>19697;</u>	<u>Q04207;</u>
Cellular Localization	Nucleus . Cytoplasm . Nuclear, b complexed to an inhibitor (I-kap nucleus upon TNF-alpha inductic after LPS stimulation (PubMed:20 L.monocytogenes infection (Pub	pa-B) (PubMed:1493333) on (PubMed:19058135). C 0547752). Translocation f	Colocalized with DDX1 in the olocalizes with GFI1 in the nucleus

Tissue specificity Bone, Colon, Pancreas, Placenta,

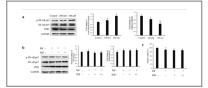
Function

Function:NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processed such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB. NFKB1/p105, NFKB1/p50, REL and NFKB2/p52 and the heterodimeric p65-p50 complex appears to be most abundant one. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NFkappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway, Ikappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. NF-kappa-B heterodimeric p65-p50 and p65-c-Rel complexes are transcriptional activators. The NF-kappa-B p65-p65 complex appears to be involved in invasin-mediated activation of IL-8 expression. The inhibitory effect of I-kappa-B upon NFkappa-B the cytoplasm is exerted primarily through the interaction with p65, p65 shows a weak DNA-binding site which could contribute directly to DNA binding in the NF-kappa-B complex., PTM: Phosphorylation on 'Ser-536' stimulates acetylation on 'Lys-310' and interaction with CBP; the phosphorylated and acetylated forms show enhanced transcriptional activity., PTM: Reversibly acetylated; the acetylation seems to be mediated by CBP, the deacetylation by HDAC3. Acetylation at 'Lys-122' enhances DNA binding and impairs association with NFKBIA. Acetylation at 'Lys-310' is required for full transcriptional activity in the absence of effects on DNA binding and NFKBIA association. Acetylation can also lower DNA-binding and results in nuclear export., PTM: Ubiguitinated, leading to its proteosomal degradation. Degradation is required for termination of NF-kappa-B response., similarity: Contains 1 RHD (Rel-like) domain., subcellular location: Nuclear, but also found in the cytoplasm in an inactive form complexed to an inhibitor (I-kappa-B)., subunit: Component of the NF-kappa-B p65-p50 complex. Component of the NF-kappa-B p65-c-Rel complex. Homodimer; component of the NF-kappa-B p65-p65 complex. Component of the NF-kappa-B p65-p52 complex. May interact with ETHE1. Binds AES and TLE1. Interacts with TP53BP2. Binds to and is phosphorylated by the activated form of either RPS6KA4 or RPS6KA5. Interacts with ING4 and this interaction may be indirect. Interacts with CARM1, USP48 and UNC5CL. Interacts with IRAK1BP1 (By similarity).Interacts with NFKBID (By similarity). Interacts with NFKBIA. Interacts with GSK3B. Interacts with NFKBIB (By similarity). Interacts with NFKBIE. Interacts with NFKBIZ (By similarity). Part of a 70-90 kDa complex at least consisting of CHUK, IKBKB, NFKBIA, RELA, IKBKAP and MAP3K14. Interacts with HDAC3; HDAC3 mediates the deacetylation of RELA. Interacts with HDAC1; the interaction requires non-phosphorylated RELA. Interacts with CBP; the interaction requires phosphorylated RELA. Interacts (phosphorylated at 'Thr-254') with PIN1; the interaction inhibits p65 binding to NFKBIA. Interacts with SOCS1. Interacts with UXT. Interacts with MTDH. Interacts with human respiratory syncytial virus (HRSV) protein M2-1.,

Validation Data



Lu, Yao, et al. "Preventive effects of donkey milk powder on the ovalbumininduced asthmatic mice." Journal of Functional Foods 84 (2021): 104603.



60kDa GAI	ры 🖛				
					36kDa
55kDa p-NF-xB	(p65)				60kDa
48kDa CC	ND1		40.0		36kDa
• 36kDa GA	PDH 🕳				36kDa
	DEN -	. + +	+ +	+ +	
- F	BRP -	- +	- +	- +	
	48kDa CC 36kDa GA	48kDa CCND1	48xDa CCND1	48xDa CCND1	48.Da CCND1

Zhao, Guo-Ping, et al. "Imidacloprid increases intestinal permeability by disrupting tight junctions." Ecotoxicology and Environmental Safety 222 (2021): 112476.

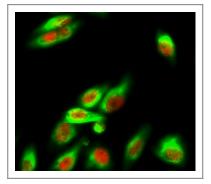
Zhang, Yanqiong, et al. "A discovery of clinically approved formula FBRP for repositioning to treat HCC by inhibiting PI3K/AKT/NF-κB activation." Molecular Therapy-Nucleic Acids19 (2020): 890-904.

	MDA	scra	mble	sh-B	ECN1-1
PDTC	-	-	+	-	+
EPI	+	+	+	+	+
GAPDH	-	-	-	-	-
Phosph-P65	-	-	I	-	1
Cleaved- caspase 3	9	-	-	-	• ••
BAX/BCL2	18.17	0.3	0.3	5.48	0.54
BCL2	-	-	-	-	-
Авах	-	-	-	-	

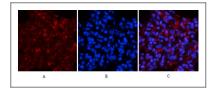
Zhang, Li-han, et al. "Enhanced autophagy reveals vulnerability of P-gp mediated epirubicin resistance in triple negative breast cancer cells." Apoptosis 21.4 (2016): 473-488.

P-P65	
P65	
β-actin	

Yao, Yao, et al. "PSTPIP2 inhibits the inflammatory response and proliferation of fibroblast-like synoviocytes in vitro." Frontiers in pharmacology 9 (2018): 1432.



Immunofluorescence analysis of Hela cell. 1,NF κ B-p65 (phospho Ser536) Polyclonal Antibody(red) was diluted at 1:200(4° overnight). α -tubulin Monoclonal Antibody(8F11)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000(room temperature, 50min).



Immunofluorescence analysis of rat-lung tissue. 1,NFkB-p65 (phospho Ser536) Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

Immunohistochemical analysis of paraffin-embedded Human-stomach-cancer tissue. 1,NFkB-p65 (phospho Ser536) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

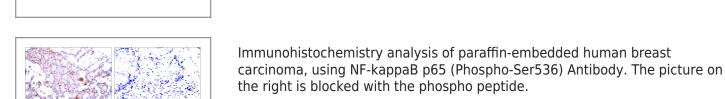
Immunohistochemical analysis of paraffin-embedded Rat-testis tissue. 1,NFkB-p65 (phospho Ser536) Polyclonal Antibody was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

Immunohistochemical analysis of paraffin-embedded Rat-lung tissue. 1,NFKBp65 (phospho Ser536) Polyclonal Antibody was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

Immunohistochemical analysis of paraffin-embedded Mouse-liver tissue. 1,NFkB-p65 (phospho Ser536) Polyclonal Antibody was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

Immunohistochemical analysis of paraffin-embedded Mouse-lung tissue. 1,NFkB-p65 (phospho Ser536) Polyclonal Antibody was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C.20min). 3.Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

The picture was kindly provided by our customer

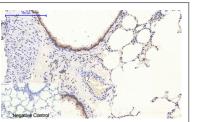


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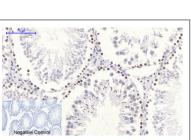


Phospho-NFkB-p65 (S536)

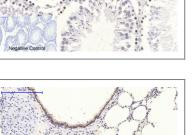
Jiangsu University

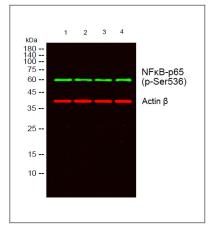












Western blot analysis of lysates from 1) A549, 2) 3T3, 3) 293T, 4)K562 cells, (Green) primary antibody was diluted at 1:1000, 4°over night, secondary antibody(cat:RS23920)was diluted at 1:10000, 37° 1hour. (Red) Actin β Monoclonal Antibody(5B7) (cat:YM3028) antibody was diluted at 1:5000 as loading control, 4° over night, secondary antibody(cat:RS23710)was diluted at 1:10000, 37° 1hour.

Contact information

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