

Dok-2 (Phospho Tyr299) Rabbit pAb

CatalogNo: YP0085

Orthogonal Validated 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Monkey

Applications

- WB, IF, ELISA

MW

- 48kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-1:2000**IF 1:200-1:1000****ELISA 1:20000****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

Immunogen

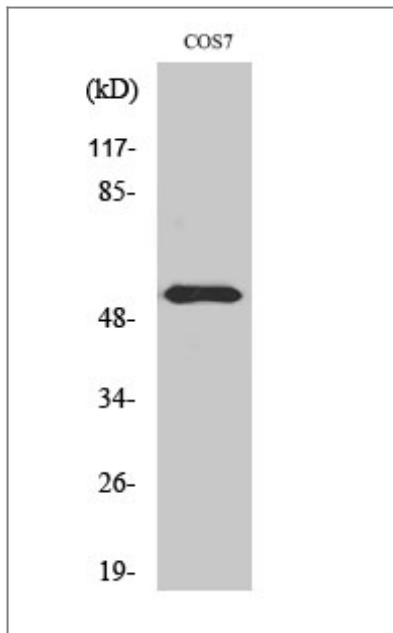
The antiserum was produced against synthesized peptide derived from human p56 Dok-2 around the phosphorylation site of Tyr299. AA range: 266-315

Specificity Phospho-Dok-2 (Y299) Polyclonal Antibody detects endogenous levels of Dok-2 protein only when phosphorylated at Y299. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):GEyAV

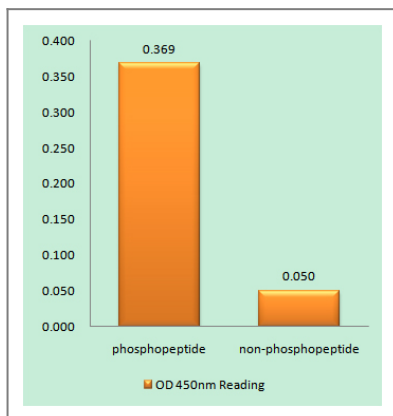
| Target Information

Gene name	DOK2		
Protein Name	Docking protein 2		
	Organism	Gene ID	UniProt ID
	Human	9046 ;	O60496 ;
	Mouse	13449 ;	O70469 ;
Cellular Localization	cytosol,		
Tissue specificity	Highly expressed in peripheral blood leukocytes, lymph nodes and spleen. Lower expression in thymus, bone marrow and fetal liver.		
Function	Domain:PTB domain mediates receptor interaction.,Function:DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. DOK2 may modulate the cellular proliferation induced by IL-4, as well as IL-2 and IL-3. May be involved in modulating Bcr-Abl signaling. Attenuates EGF-stimulated MAP kinase activation.,PTM:On immunoreceptor stimulation, phosphorylated on C-terminal tyrosine residues. Phosphorylation on Tyr-345 is required for binding to the SH2 domain of NCK. Phosphorylation on both Tyr-271 and Tyr-299 is required for interaction with RASGAP.,similarity:Belongs to the DOK family. Type A subfamily.,similarity:Contains 1 IRS-type PTB domain.,similarity:Contains 1 PH domain.,subunit:Interacts with phosphorylated RASGAP and EGFR. Interacts with RET and NCK.,tissue specificity:Highly expressed in peripheral blood leukocytes, lymph nodes and spleen. Lower expression in thymus, bone marrow and fetal liver.,		

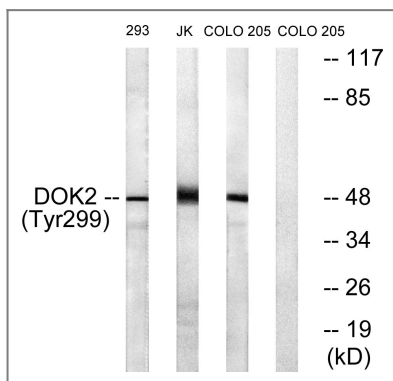
| Validation Data



Western Blot analysis of various cells using Phospho-Dok-2 (Y299) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using p56 Dok-2 (Phospho-Tyr299) Antibody



Western blot analysis of lysates from COS7 cells treated with insulin 0.01U/ml 15', Jurkat cells treated with insulin 0.01U/ml 15' and 293 cells treated with serum 20% 15', using p56 Dok-2 (Phospho-Tyr299) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
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