JAK1 (phospho Tyr1034) Polyclonal Antibody

CatalogNo: YP0154 Orthogonal Validated Comparable Abs

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse,Rat	• IF,WB,IP,IHC,ELISA

MW	Isotype
• 132kD (Observed)	• IgG

Recommended Dilution Ratios

IF 1:50-200
WB 1:200-1:1000
IHC 1:100-1:300
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

Immunogen	The antiserum was produced against synthesized peptide derived from human JAK1 around the phosphorylation site of Tyr1034. AA range:988-1037

Specificity	Phospho-JAK1 (Y1034) Polyclonal Antibody detects endogenous levels of JAK1 protein only when phosphorylated at Y1034.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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):KEyYT

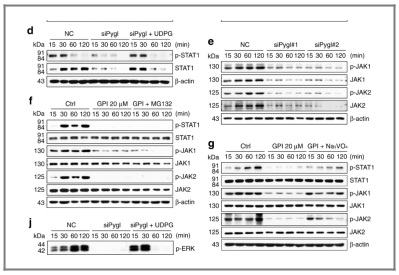
Target Information

Gene name	JAK1
Protein Name	Tyrosine-protein kinase JAK1

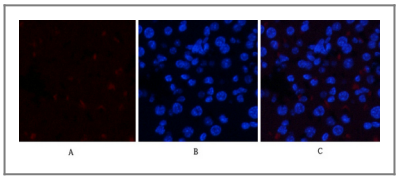
Organism	Gene ID	UniProt ID
Human	3716;	P23458;
Mouse		P52332;

Cellular Localization	Endomembrane system; Peripheral membrane protein. Wholly intracellular, possibly membrane associated.
Tissue specificity	Expressed at higher levels in primary colon tumors than in normal colon tissue. The expression level in metastatic colon tumors is comparable to the expression level in normal colon tissue.
Function	Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,Domain:Possesses two phosphotransferase domains. The second one probably contains the catalytic domain (By similarity), while the presence of slight differences suggest a different role for domain 1.,Domain:The FERM domain mediates interaction with JAKMIP1.,Function:Tyrosine kinase of the non-receptor type, involved in the IFN-alpha/beta/gamma signal pathway. Kinase partner for the interleukin (IL)-2 receptor.,sequence Caution:Translation N-terminally extended.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily.,similarity:Contains 1 FERM domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 SH2 domain.,subcellular location:Wholly intracellular, possibly membrane associated.,subunit:Interacts with IL31RA, JAKMIP1 and SHB.,tissue specificity:Expressed at higher levels in primary colon tumors than in normal colon tissue. The expression level in metastatic colon tumors is comparable to the expression level in normal colon tissue.,

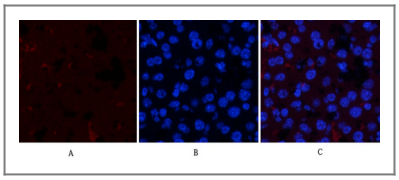
Validation Data



Ma, J., Wei, K., Liu, J. et al. Glycogen metabolism regulates macrophage-mediated acute inflammatory responses. Nat Commun 11, 1769 (2020).



Immunofluorescence analysis of mouse-liver tissue. 1,JAK1 (phospho Tyr1022) 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



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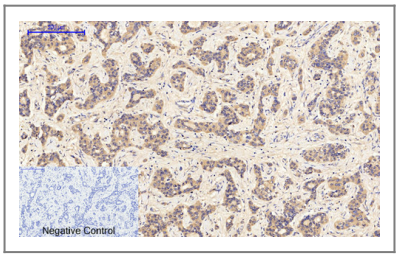
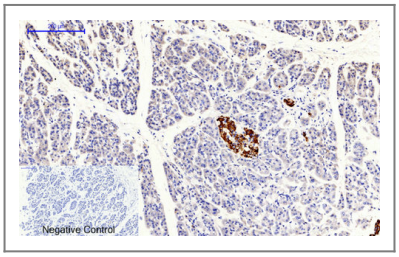
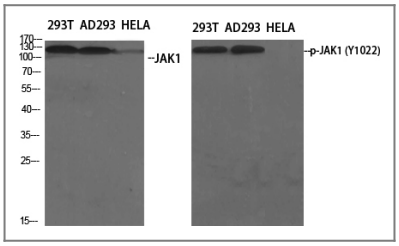


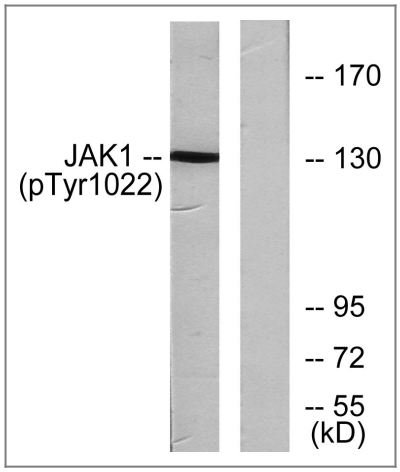
Immunohistochemical analysis of paraffin-embedded Human-liver-cancer tissue. 1,JAK1 (phospho Tyr1022) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Human-stomach-cancer tissue. 1,JAK1 (phospho Tyr1022) 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.



Western Blot analysis of various cells using Phospho-JAK1 (Y1022) Polyclonal Antibody diluted at 1:500



Western blot analysis of lysates from A549 cells , using JAK1 (Phospho-Tyr1022) 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:
JAK1 (phospho Tyr1034) Polyclonal Antibody