

# JAK1 (PT0658R) PT™ Rabbit mAb

CatalogNo: YM8467 **Recombinant** 

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat

### Applications

- WB, IHC, IF, ELISA

### MW

- 133kD (Calculated)
- 133kD (Observed)

### Isotype

- IgG, Kappa

## Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

## Recommended Dilution Ratios

**IHC 1:100-1:1000****WB 1:2000-1:10000****IF 1:200-1:1000****ELISA 1:5000-1:20000**

## Basic Information

**Clonality** Monoclonal**Clone Number** PT0658R

## Immunogen Information

**Specificity** Endogenous

## Target Information

**Gene name** JAK1 JAK1A JAK1B

**Protein Name** JAK1

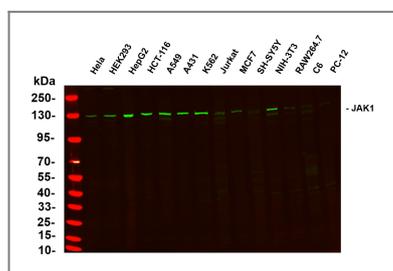
Organism	Gene ID	UniProt ID
Human	<a href="#">3716</a> ;	<a href="#">P23458</a> ;
Mouse		<a href="#">P52332</a> ;

**Cellular Localization** Endomembrane system; Peripheral membrane protein. Wholly intracellular, possibly membrane associated.

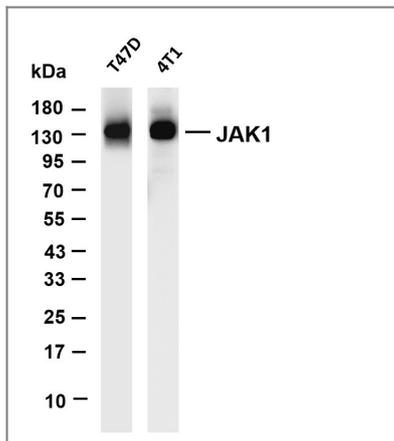
**Tissue specificity** Expressed at higher levels in primary colon tumors than in normal colon tissue. The expression level in metastatic colon tumors is comparable to the expression level in normal colon tissue.

**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.,

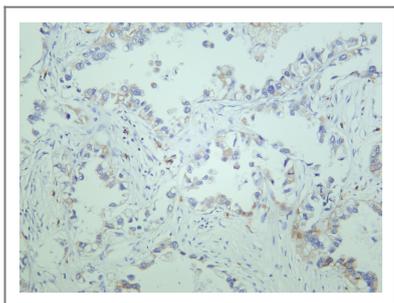
## Validation Data



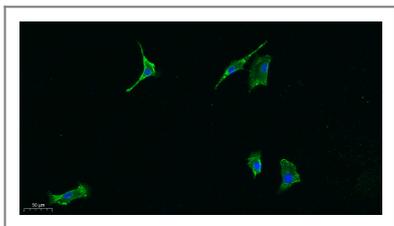
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4~C, over night with a 1:5000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody(Cat:RS23920) was used to detect the antibody. Lane1: HeLa - Human cervical cancer Lane2: HEK293 - Human normal embryonic kidney Lane3: HepG2 - Human hepatocellular carcinoma Lane4: HCT-116 - Human colon cancer Lane5: A549 - Human lung adenocarcinoma Lane6: A431 - Human skin squamous cell carcinoma Lane7: K562 - Human chronic myeloid leukemia Lane8: Jurkat - Human acute T cell leukemia cells Lane9: MCF7 - Human breast cancer Lane10: SH-SY5Y - Human neuroblastoma cells Lane11: NIH-3T3 - NIH mouse fibroblasts Lane12: RAW264.7 - Mouse mononuclear macrophage leukemia cells Lane13: C6 - Rat glioma cells Lane14: PC-12 - Pheochromocytoma in rats



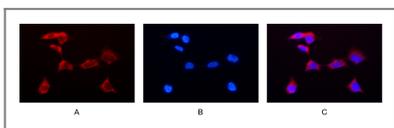
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-JAK1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: T47D Lane 2: 4T1



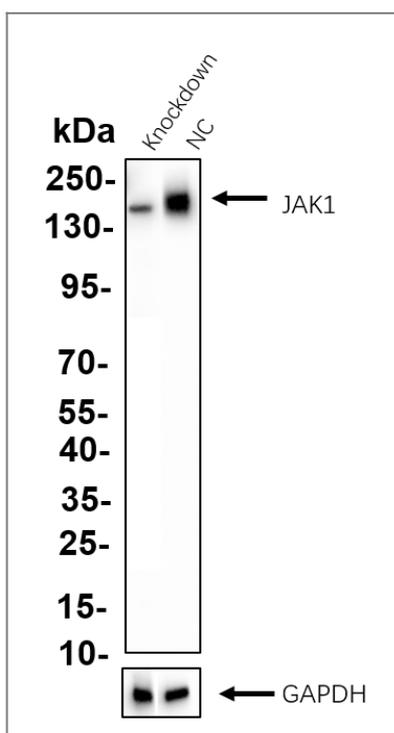
Human lung carcinoma was stained with anti-JAK1 rabbit antibody



Immunofluorescence analysis of A549. 1, primary Antibody was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 488 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, DAPI(blue) 10min.



Immunofluorescence analysis of HEK293. Picture A: JAK1 antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B



Western blot analysis of lysates from HepG2 WT and knockdown cell. Cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with JAK1 (PT0658R) PT Rabbit mAb. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.

## | Contact information

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Please scan the QR code  
to access additional  
product information:  
**JAK1 (PT0658R) PT™**  
**Rabbit mAb**

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