


Product datasheet

Anti-JAK1 antibody ab47435

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Overview

Product name	Anti-JAK1 antibody
Description	Rabbit polyclonal to JAK1
Specificity	Detects endogenous levels of JAK1 protein
Tested applications	Suitable for: ICC/IF, IHC-P, ELISA, WB
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat 
Immunogen	Synthetic non - phosphopeptide (Human) from around the phosphorylation site of Tyrosine 1022
Positive control	Human breast carcinoma tissue. Extracts from MCF7 cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg ²⁺ or Ca ²⁺), 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Purification notes	Affinity purified from rabbit antiserum by affinity chromatography using epitope specific immunogen
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab47435** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 µg/ml.
IHC-P		Use at an assay dependent concentration.
ELISA		1/10000.

Application	Abreviews	Notes
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WB 1/500 - 1/1000. Detects a band of approximately 132 kDa (predicted molecular weight: 132 kDa).

Target

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.

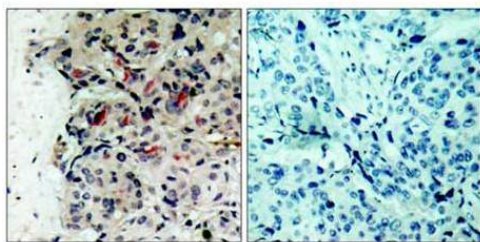
Tissue specificity Expressed at higher levels in primary colon tumors than in normal colon tissue. The expression level in metastatic colon tumors is comparable to the expression level in normal colon tissue.

Sequence similarities Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily. Contains 1 FERM domain. Contains 1 protein kinase domain. Contains 1 SH2 domain.

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. The FERM domain mediates interaction with JAKMIP1.

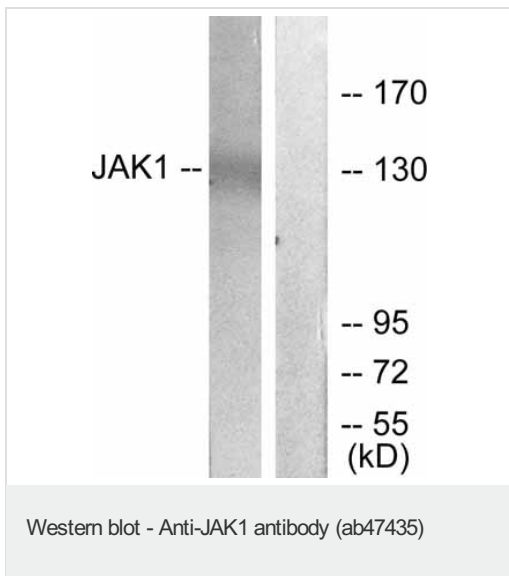
Cellular localization Endomembrane system. Wholly intracellular, possibly membrane associated.

Anti-JAK1 antibody images



Immunohistochemical staining of paraffin embedded human breast carcinoma tissue using ab47435 at dilution of 1/50-1/100. Right panel treated with peptide and left panel untreated

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-JAK1 antibody (ab47435)

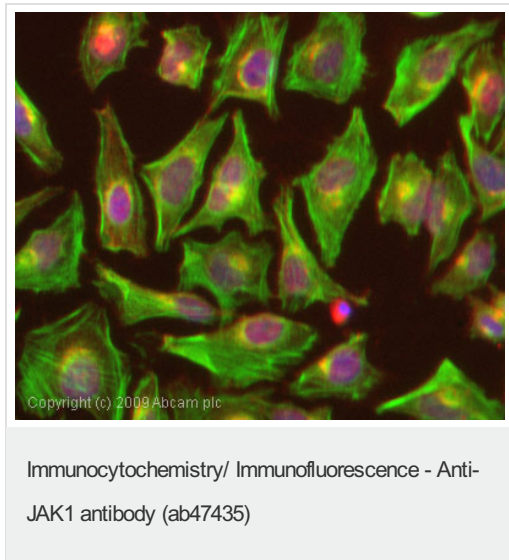


All lanes : Anti-JAK1 antibody (ab47435) at 1/500 dilution

Lane 1 : MCF7 cell extract treated with EGF

Lane 2 : MCF7 cell extract treated with EGF with peptide

Predicted band size : 132 kDa



ICC/IF image of ab47435 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab47435, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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