

Product datasheet

Anti-JAK1 (phospho Y1034 + Y1035) antibody [EPR1899(2)] - BSA and Azide free ab203784

Recombinant RabMAb

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Overview

Product name	Anti-JAK1 (phospho Y1034 + Y1035) antibody [EPR1899(2)] - BSA and Azide free
Description	Rabbit monoclonal [EPR1899(2)] to JAK1 (phospho Y1034 + Y1035) - BSA and Azide free
Host species	Rabbit
Specificity	According to our ELISA result, this antibody preferentially recognizes JAK1 with phospho Y1035, but also recognizes JAK1 with phospho Y1034 if high amount peptides were coated.
Tested applications	Suitable for: ELISA, Dot blot, WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Ramos treated with 1mM pervanadate for 30 minutes whole cell lysate. IHC-P: Human colon adenocarcinoma and liver carcinoma tissue. Dot: JAK1 (pY1034), JAK1 (pY1035) and JAK1 (pY1034/pY1035) phospho peptides. ELISA: JAK1 (pY1034), JAK1 (pY1035) and JAK1 non-phospho peptides.
General notes	<p>ab203784 is the carrier-free version of ab138005.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply

- Animal-free production

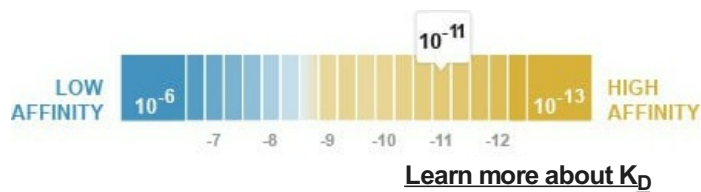
For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Mouse: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Dissociation constant (K_D)	K _D = 1.99 x 10 ⁻¹¹ M



Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR1899(2)
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab203784 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

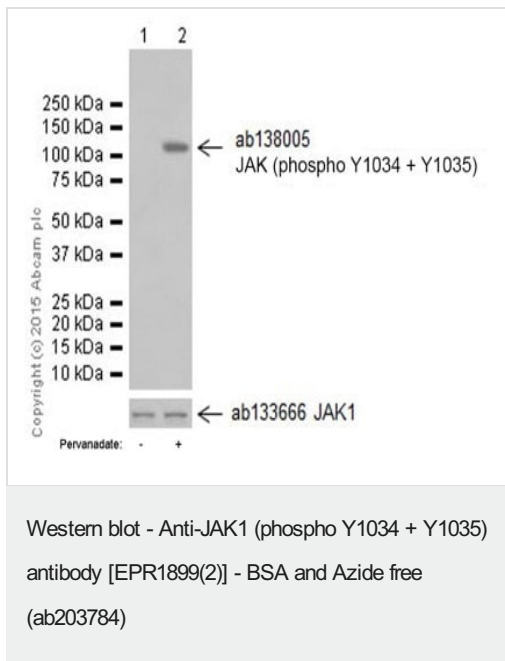
Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
Dot blot		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 133 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See IHC antigen retrieval protocols .

Target

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.

Images



All lanes : Anti-JAK1 (phospho Y1034 + Y1035) antibody [EPR1899(2)] ([ab138005](#)) at 1/500 dilution

Lane 1 : Untreated Ramos whole cell lysate

Lane 2 : Ramos treated with 1mM pervanadate for 30 minutes whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

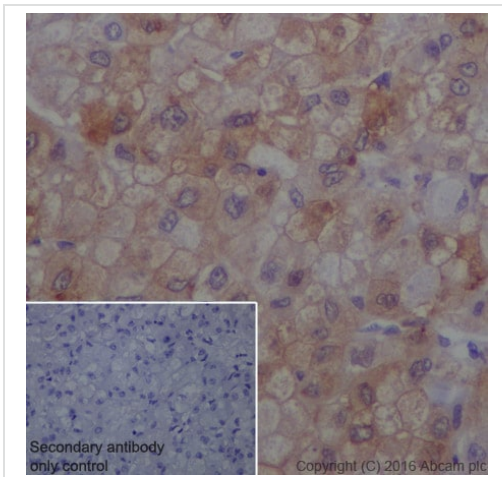
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 133 kDa

Observed band size: 133 kDa

Blocking and diluting buffer 5% NFDM/TBST.

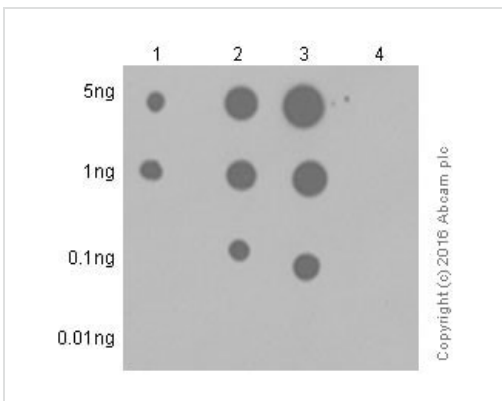
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab138005](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-JAK1 (phospho Y1034 + Y1035) antibody [EPR1899(2)] - BSA and Azide free (ab203784)

Immunohistochemical analysis of paraffin-embedded human liver carcinoma sections labelling JAK1 (phospho Y1034 + Y1035) with purified **ab138005** at dilution of 1/50. The secondary antibody used was ImmunoHistoProbe HRP Polymer for Rabbit IgG at dilution of 1:0. The sample was counterstained with hematoxylin. Antigen retrieval was performed using EDTA Buffer; pH 9.0. PBS was used instead of the primary antibody as the negative control and is shown in the inset.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab138005**).



Dot Blot - Anti-JAK1 (phospho Y1034 + Y1035) antibody [EPR1899(2)] - BSA and Azide free (ab203784)

Primary antibody: 1/1000 (unpurified)

Secondary antibody: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**)

Secondary ab dilution: 1/100,000

Blocking buffer and concentration: 5% NFDM/TBST

Diluting buffer and concentration: 5% NFDM /TBST

Lane 1: JAK1 (pY1034) phospho peptide

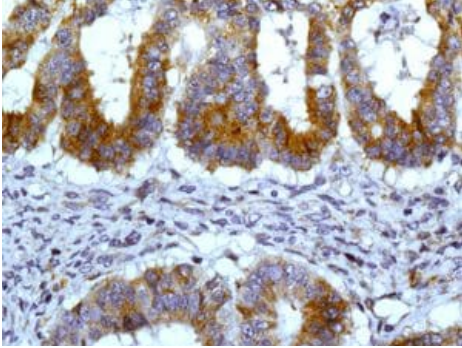
Lane 2: JAK1 (pY1035) phospho peptide

Lane 3: JAK1 (pY1034/pY1035) phospho peptide

Lane 4: JAK1 non-phospho peptide

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab138005**).

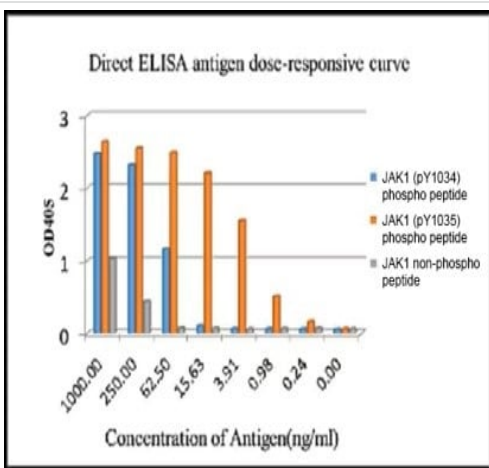


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-JAK1 (phospho Y1034 + Y1035) antibody [EPR1899(2)] - BSA and Azide free (ab203784)

Immunohistochemical analysis of paraffin embedded Human colon adenocarcinoma tissue labelling JAK1 with unpurified **ab138005** antibody at 1/50 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab138005**).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



ELISA - Anti-JAK1 (phospho Y1034 + Y1035) antibody [EPR1899(2)] - BSA and Azide free (ab203784)

Antigen:

JAK1 (pY1034) phospho peptide

JAK1 (pY1035) phospho peptide

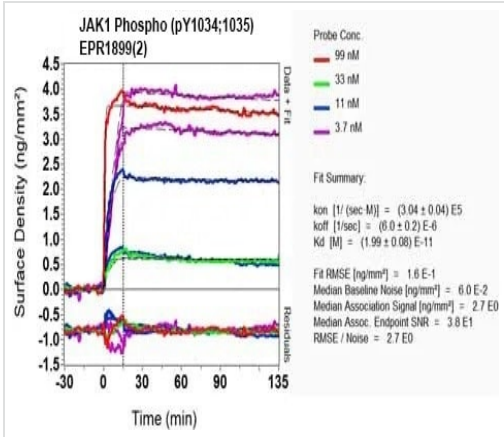
JAK1 non-phospho peptide

Antigen concentration: 0~1000ng/ml

Primary antibody concentration range: 1000ng/ml

Secondary antibody: Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), 1/2500 dilution

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab138005**).



SPR Scanning - Anti-JAK1 (phospho Y1034 + Y1035) antibody [EPR1899(2)] - BSA and Azide free (ab203784)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab138005](#)).

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-JAK1 (phospho Y1034 + Y1035) antibody [EPR1899(2)] - BSA and Azide free (ab203784)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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