abcam

Product datasheet

Anti-PIAS1 + PIAS2 antibody [EPR2581Y] ab77231

Recombinant RabMAb

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Overview

Product name	Anti-PIAS1 + PIAS2 antibody [EPR2581Y]
Description	Rabbit monoclonal [EPR2581Y] to PIAS1 + PIAS2
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB, IHC-P
Species reactivity	**Reacts with:** Human, Recombinant fragment **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide within Human PIAS1 aa 600 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: **O75925**
Positive control	Daudi, 293, Jurkat, SW40 and HepG2 cell lysates; human tonsil tissue.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - 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**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR2581Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab77231 in the following tested applications.

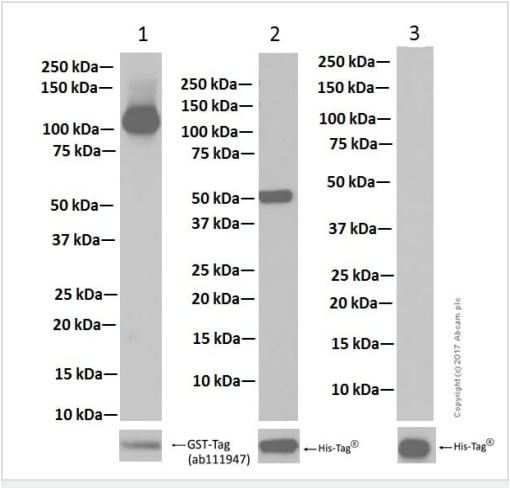
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★☆ (1)	1/100 - 1/500.
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 72 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

Target

Cellular localization PIAS1: Nucleus speckle. Interaction with CSRP2 may induce a partial redistribution along the cytoskeleton. PIAS2: Nucleus speckle. Nucleus, PML body. Nucleus. Colocalizes at least partially with promyelocytic leukemia nuclear bodies (PML NBs) (PubMed:22406621). Colocalizes with SUMO1 in nuclear granules (By similarity).

Images



Western blot - Anti-PIAS1 + PIAS2 antibody [EPR2581Y] (ab77231)

All lanes : Anti-PIAS1 + PIAS2 antibody [EPR2581Y] (ab77231) at 1/50000 dilution

Lane 1 : Human PIAS1 full-length recombinant protein with GST-Tag

Lane 2 : Human PIAS2-beta recombinant protein fragment with GST-His-Tag

Lane 3 : Human PIAS3 recombinant protein fragment with SUMO-His-Tag

Lysates/proteins at 0.015 µg per lane.

Secondary

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

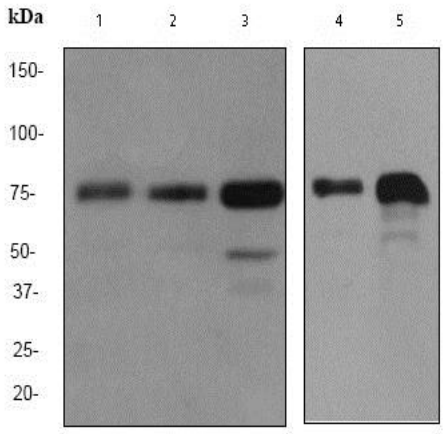
Predicted band size: 72 kDa

Observed band size: 98, 42 kDa

Blocking and Diluting buffer and concentration: 5% NFDM /TBST

Exposure time: Lane1:10 seconds, Lane2: 5 seconds, Lane3: 3 minutes.

Human PIAS1 full-length recombinant protein (Cat#: **ab152888**)



Western blot - Anti-PIAS1 + PIAS2 antibody [EPR2581Y] (ab77231)

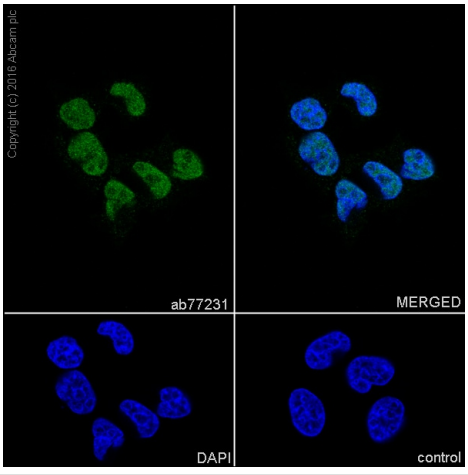
All lanes : Anti-PIAS1 + PIAS2 antibody [EPR2581Y] (ab77231) at 1/50000 dilution

Lane 1 : Daudi cell lysate
Lane 2 : 293 cell lysate
Lane 3 : Jurkat cell lysate
Lane 4 : SW40 cell lysate
Lane 5 : HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

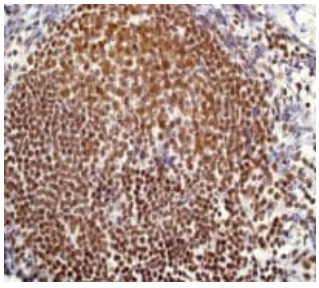
Predicted band size: 72 kDa
Observed band size: 78 kDa



Immunocytochemistry/ Immunofluorescence - Anti-PIAS1 + PIAS2 antibody [EPR2581Y] (ab77231)

Immunocytochemistry/Immunofluorescence analysis of HeLa (human cervix adenocarcinoma) cells labelling PIAS1 + PIAS2 with purified ab77231 at 1/500. Cells were fixed with 4% Paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. Nuclei were counterstained with DAPI (blue).

Secondary Only Control: PBS was used instead of the primary antibody as the negative control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PIAS1 + PIAS2 antibody [EPR2581Y] (ab77231)

ab77231, at a 1/100 dilution, staining PIAS1 + PIAS2 in paraffin embedded human tonsil tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

Anti-PIAS1 + PIAS2 antibody [EPR2581Y] (ab77231)

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