


Product datasheet

Anti-IRSp53 antibody ab105221

2 Images

Overview

Product name	Anti-IRSp53 antibody
Description	Goat polyclonal to IRSp53
Host species	Goat
Specificity	ab105221 recognizes BAIAP2 isoform 1.
Tested applications	Suitable for: WB, ELISA, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide: C-SGSGTLVSTV , corresponding to C terminal amino acids 512-521 of Human BAIAP2 Isoform 1. Run BLAST with Run BLAST with
Positive control	Human Brain, Cortex; Human Brain lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris buffered saline, pH 7.3
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab105221** in the following tested applications.

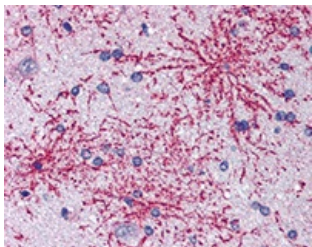
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 3 µg/ml. Predicted molecular weight: 61 kDa.
ELISA		1/64000.
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

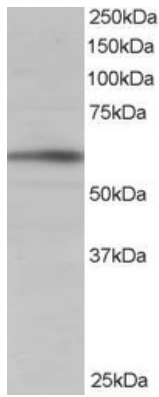
Function	Adapter protein that links membrane-bound small G-proteins to cytoplasmic effector proteins. Necessary for CDC42-mediated reorganization of the actin cytoskeleton and for RAC1-mediated membrane ruffling. Involved in the regulation of the actin cytoskeleton by WASF family members and the Arp2/3 complex. Plays a role in neurite growth. Acts synergetically with ENAH to promote filipodia formation.
Tissue specificity	Isoform 1 and isoform 4 are expressed almost exclusively in brain. Isoform 4 is barely detectable in placenta, prostate and testis. A short isoform is ubiquitous, with the highest expression in liver, prostate, testis and placenta.
Sequence similarities	Contains 1 IMD (IRSp53/MIM homology) domain. Contains 1 SH3 domain.
Domain	The IMD domain forms a coiled coil. The isolated domain can induce actin bundling and filopodia formation. In the absence of G-proteins intramolecular interaction between the IMD and the SH3 domain gives rise to an auto-inhibited state of the protein. Interaction of the IMD with RAC1 or CDC42 leads to activation. The SH3 domain interacts with ATN1, BAI1, WASF1, WASF2, SHANK1, DIAPH1 and ENAH.
Post-translational modifications	Phosphorylated on tyrosine residues by INSR in response to insulin treatment.
Cellular localization	Cytoplasm. Membrane. Cell projection > filopodium. Cell projection > ruffle. Detected throughout the cytoplasm in the absence of specific binding partners. Detected in filopodia and close to membrane ruffles.

Images



ab105221, at 5 µg/ml, staining BAIAP2 in formalin-fixed, paraffin-embedded Human Brain, Cortex by Immunohistochemistry, followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BAIAP2 antibody (ab105221)



Western blot - Anti-BAIAP2 antibody (ab105221)

Anti-IRSp53 antibody (ab105221) at 1 µg/ml + Human Brain lysate
(in RIPA buffer) at 35 µg

Developed using the ECL technique.

Predicted band size: 61 kDa

Primary incubated for 1 hour.

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