




Product datasheet

Anti-IRSp53 antibody - C-terminal ab15697

★★★★☆ [1 Abreviews](#) [3 References](#) [1 Image](#)

Overview

Product name	Anti-IRSp53 antibody - C-terminal
Description	Goat polyclonal to IRSp53 - C-terminal
Host species	Goat
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Dog, Human Predicted to work with: Rat 
Immunogen	Synthetic peptide corresponding to Human IRSp53 aa 512-520 (C terminal). Sequence: C-SGSGTLVSTV (Peptide available as ab23256)  Run BLAST with  Run BLAST with
Positive control	WB: Human brain lysate.
General notes	This antibody is expected to recognise the human isoform 1 only of this protein. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.05% Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified

Primary antibody notes	This antibody is expected to recognise the human isoform 1 only of this protein.
Clonality	Polyclonal
Isotype	IgG

Applications

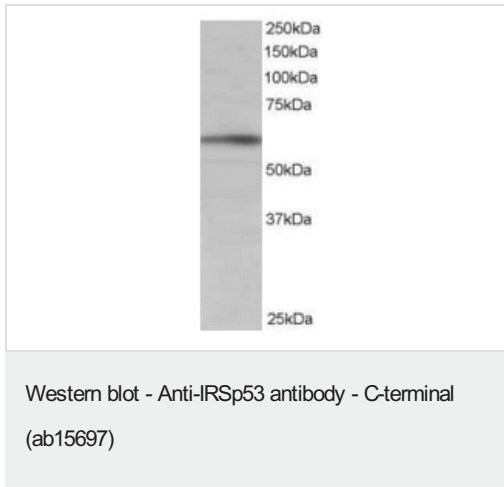
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab15697 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 60 kDa (predicted molecular weight: 60 kDa). 1 hour primary incubation is recommended for this product.

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



Anti-IRSp53 antibody - C-terminal (ab15697) at 1 µg/ml + Lysates prepared from human brain at 35 µg

Predicted band size: 60 kDa

ab15697 staining (1 µg/ml) of human brain lysate (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

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

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