

Product datasheet

Anti-ISG15 antibody ab233071

6 Images

Overview

Product name	Anti-ISG15 antibody
Description	Rabbit polyclonal to ISG15
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human, Pig
Immunogen	<p>Recombinant fragment (His-T7-tag) corresponding to Human ISG15 aa 2-157. Two N-terminal tags. (expressed in E.coli).</p> <p>Sequence:</p> <p>GWDLTVKMLAGNEFQVSLSSSMSVSELKAQITQKIGVHAF QQRLAVHPSG VALQDRVPLASQGLGPGSTVLLVVDKCDEPLSILVRNNK GRSSTYEVRLT QTV AHLKQQVSGLEGVQDDLFWLT FEGKPLEDQLPLGEY GLKPLSTVFMN LRLRGG</p>

Database link: [P05161](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

Positive control WB: Recombinant human ISG15 protein; Pig kidney and cerebrum tissue lysate. IHC-P: Human cerebrum, colorectal cancer and glioma tissue.

General notes

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own

labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as 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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol
Purity	Immunogen affinity purified
Purification notes	Antigen-specific affinity chromatography followed by Protein A affinity chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab233071** 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 0.2 - 2 µg/ml. Predicted molecular weight: 18 kDa.
IHC-P		Use a concentration of 5 - 20 µg/ml.

Target

Function	<p>Ubiquitin-like protein that is conjugated to intracellular target proteins after IFN-alpha or IFN-beta stimulation. Its enzymatic pathway is partially distinct from that of ubiquitin, differing in substrate specificity and interaction with ligating enzymes. ISG15 conjugation pathway uses a dedicated E1 enzyme, but seems to converge with the Ub conjugation pathway at the level of a specific E2 enzyme. Targets include STAT1, SERPINA3G/SPI2A, JAK1, MAPK3/ERK1, PLCG1, EIF2AK2/PKR, MX1/MxA, and RIG-1. Deconjugated by USP18/UBP43. Shows specific chemotactic activity towards neutrophils and activates them to induce release of eosinophil chemotactic factors. May serve as a trans-acting binding factor directing the association of ligated target proteins to intermediate filaments. May also be involved in autocrine, paracrine and endocrine mechanisms, as in cell-to-cell signaling, possibly partly by inducing IFN-gamma secretion by monocytes and macrophages. Seems to display antiviral activity during viral infections.</p> <p>In response to IFN-tau secreted by the conceptus, may ligate to and regulate proteins involved in</p>
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the release of prostaglandin F2-alpha (PGF), and thus prevent lysis of the corpus luteum and maintain the pregnancy.

Tissue specificity

Detected in lymphoid cells, striated and smooth muscle, several epithelia and neurons.

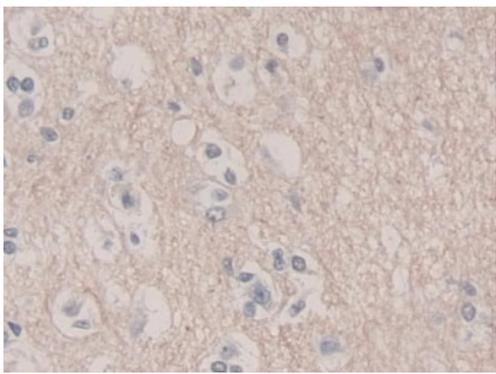
Sequence similarities

Contains 2 ubiquitin-like domains.

Cellular localization

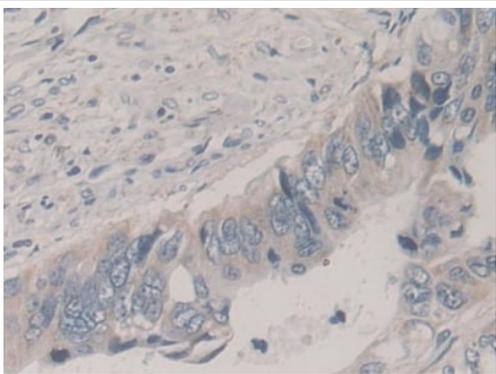
Cytoplasm. Secreted. UCRP conjugates seem to be noncovalently associated with the intermediate filaments and distributed in a punctate pattern. Also secreted.

Images



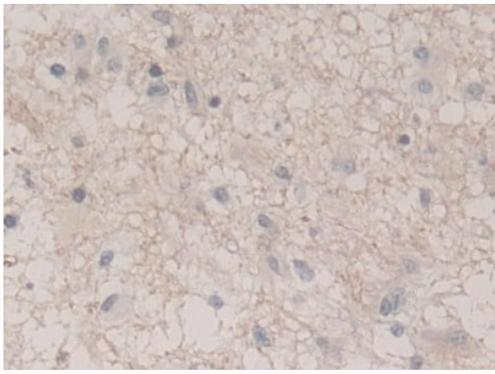
Formalin-fixed, paraffin-embedded human cerebrum tissue stained for ISG15 using ab233071 at 30µg/ml in immunohistochemical analysis. DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ISG15 antibody (ab233071)



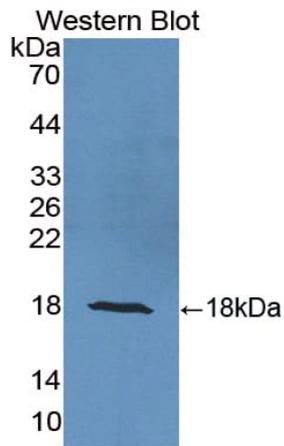
Formalin-fixed, paraffin-embedded human colorectal cancer tissue stained for ISG15 using ab233071 at 30µg/ml in immunohistochemical analysis. DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ISG15 antibody (ab233071)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ISG15 antibody (ab233071)

Formalin-fixed, paraffin-embedded human glioma tissue stained for ISG15 using ab233071 at 30 μ g/ml in immunohistochemical analysis. DAB staining.

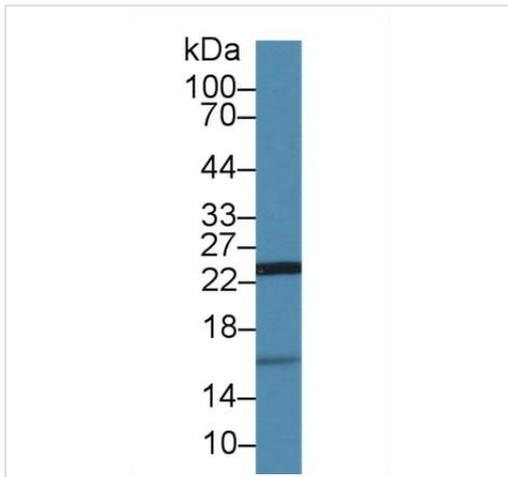


Western blot - Anti-ISG15 antibody (ab233071)

Anti-ISG15 antibody (ab233071) at 2 μ g/ml + Recombinant human ISG1 protein.

Developed using the ECL technique.

Predicted band size: 18 kDa

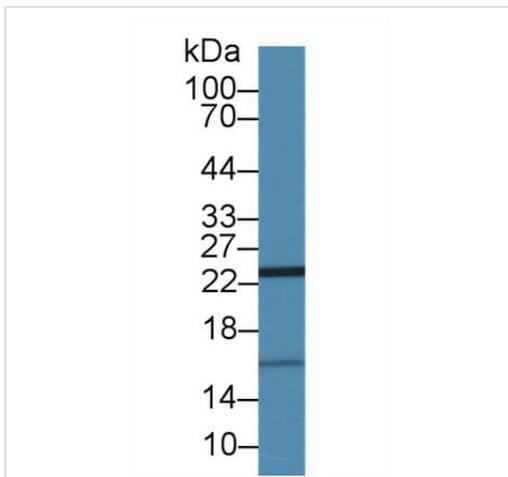


Western blot - Anti-ISG15 antibody (ab233071)

Anti-ISG15 antibody (ab233071) at 2 µg/ml + Pig kidney tissue lysate

Developed using the ECL technique.

Predicted band size: 18 kDa



Western blot - Anti-ISG15 antibody (ab233071)

Anti-ISG15 antibody (ab233071) at 2 µg/ml + Pig cerebrum tissue lysate

Developed using the ECL technique.

Predicted band size: 18 kDa

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

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