**Product datasheet**

**Anti-Cripto1/CRIPTO antibody ab19917**

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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 or -80°C. Avoid freeze / thaw cycle.

Storage buffer

pH: 7.40
Preservative: 0.02% Sodium azide
Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

Purity

Immunogen affinity purified

Clonality

Polyclonal

Isotype

IgG

Applications

Our Abpromise guarantee covers the use of ab19917 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tr>
<td>ICC/IF</td>
<td>★★★★☆</td>
<td>Use a concentration of 5 µg/ml.</td>
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<tr>
<td>IHC-P</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 17 kDa (predicted molecular weight: 21 kDa).</td>
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</table>

Target

Function

Could play a role in the determination of the epiblastic cells that subsequently give rise to the mesoderm.

Tissue specificity

Preferentially expressed in gastric and colorectal carcinomas than in their normal counterparts.

Sequence similarities

Contains 1 EGF-like domain.

Cellular localization

Cell membrane.

Images
All lanes: Anti-Cripto1/CRIPTO antibody (ab19917) at 1 µg/ml

Lane 1: Human Embryonic Stem Cell Lysate at 20 µg
Lane 2: Cripto1/CRIPTO protein at 0.1 µg
Lane 3: Human Embryonic Stem Cell Lysate at 20 µg with Human Cripto1/CRIPTO peptide at 1 µg/ml
Lane 4: Cripto1/CRIPTO protein at 0.1 µg with Human Cripto1/CRIPTO peptide at 1 µg/ml

Secondary
All lanes: Rabbit IgG secondary antibody (ab28446) at 1/10000 dilution

Predicted band size: 21 kDa

The 17 kDa band detected in human embryonic stem cells may correspond with Cripto1/CRIPTO that has had its signal sequence cleaved. The Cripto1/CRIPTO bands were blocked with the immunizing peptide, ab23310.

ICC/IF image of ab19917 stained mouse embryonic stem cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab19917, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.
Anti-Cripto1/CRIPTO antibody, ab19917, stained the membrane of human embryonic stem cells at a dilution of 1/100.

The image shows staining of human pancreas tissue. Staining was nuclear in some islet cells and cytoplasmic in some cells of the acini. Antigen retrieval was performed using Citrate at pH6. Nuclear localization of Cripto1/CRIPTO protein has been described in the literature: Gong YP et al. Eur J Surg Oncol, 2006.

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

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