

Product datasheet

Anti-Orai1 antibody [EPR3394(2)] ab111960

Recombinant RabMAb

[3 References](#) [2 Images](#)

Overview

Product name	Anti-Orai1 antibody [EPR3394(2)]
Description	Rabbit monoclonal [EPR3394(2)] to Orai1
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: ICC/IF,IHC-Fr,IHC-P or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human platelet lysate and Ovary cancer lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
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 EPR3394(2)

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab111960 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		1/1000 - 1/10000. Detects a band of approximately 35,50 kDa (predicted molecular weight: 33 kDa). The 50kda band is the glycosylated Orai1 protein (PMID: 26956484).

Application notes Is unsuitable for ICC/IF, IHC-Fr, IHC-P or IP.

Target

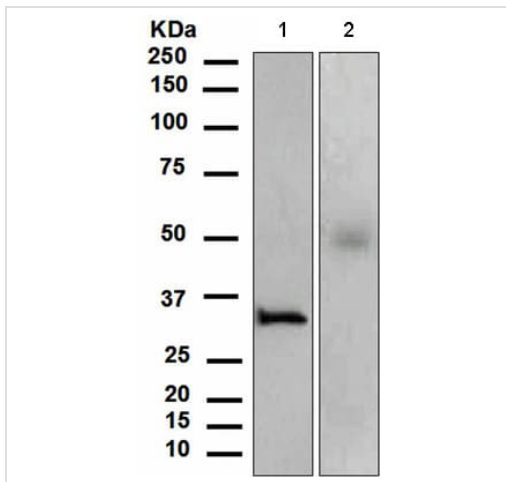
Function Ca(2+) release-activated Ca(2+) (CRAC) channel subunit which mediates Ca(2+) influx following depletion of intracellular Ca(2+) stores and channel activation by the Ca(2+) sensor, STIM1. CRAC channels are the main pathway for Ca(2+) influx in T-cells and promote the immune response to pathogens by activating the transcription factor NFAT.

Involvement in disease Defects in ORAI1 are the cause of immune dysfunction with T-cell inactivation due to calcium entry defect type 1 (IDTICED1) [MIM:612782]. IDTICED1 is an immune disorder characterized by recurrent infections, impaired T-cell activation and proliferative response, decreased T-cell production of cytokines, and normal lymphocytes counts and serum immunoglobulin levels. In surviving patients ectodermal dysplasia with anhydrosis and non-progressive myopathy may be observed.

Sequence similarities Belongs to the Orai family.

Cellular localization Cell membrane.

Images



Western blot - Anti-Orai1 antibody [EPR3394(2)] (ab111960)

All lanes : Anti-Orai1 antibody [EPR3394(2)] (ab111960) at 1/1000 dilution

Lane 1 : Human platelet lysate

Lane 2 : Human ovary cancer lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 33 kDa

The 50kda band is the glycosylated Orai1 protein (PMID: 26956484).

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-Orai1 antibody [EPR3394(2)] (ab111960)

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

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