Product datasheet

Anti-Orai1 antibody ab59330

16 References  2 Images

Overview

Product name  Anti-Orai1 antibody
Description  Rabbit polyclonal to Orai1
Host species  Rabbit
Specificity  ab59330 is predicted to have no cross-reactivity to Orai2 or Orai3.
Tested applications  Suitable for: ICC/IF, Flow Cyt, IHC-P, WB
Species reactivity  Reacts with: Mouse, Human
Immunogen  An 18 amino acid peptide from near the amino terminus of human Orai1.
Positive control  Human ovary tissue lysate and human spleen tissue.
General notes  Abcam is committed to meeting high standards of manufacturing and has decided to discontinue this product once the stock runs out as we are unable to secure its future high-quality supply. We suggest ab111960 or ab244352 as possible replacements. We are sorry for any inconvenience this may cause.

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Store at +4°C.
Storage buffer  Preservative: 0.02% Sodium azide
  Constituent: PBS
Purification notes  Purified IgG.
Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab59330 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
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

All lanes: Anti-Orai1 antibody (ab59330) at 1 µg/ml

Lane 1: human ovary tissue lysate with no blocking peptide

Lane 2: human ovary tissue lysate with blocking peptide

Lysates/proteins at 15 µg per lane.

Predicted band size: 33 kDa

Observed band size: 50 kDa

why is the actual band size different from the predicted?

Orai1 often migrates at a higher than expected molecular weight in SDS-PAGE.
ab59330 at 10μg/ml staining Orai1 in human spleen by Immunohistochemistry.

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