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Datasheet for ABIN7044554

anti-ORAI1 antibody (Extracellular)

3 Images

Overview

Quantity:	100 µg
Target:	ORAI1
Binding Specificity:	Extracellular
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ORAI1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (IF), Live Cell Imaging (LCI), Immunocytochemistry (ICC)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: Synthetic mapping to an extracellular sequence of human Orai1
Clone:	3F11-D10-B9
Isotype:	IgM
Cross-Reactivity (Details):	Recognizes only human Orai1.
Characteristics:	Mouse Anti-Human Orai1 (extracellular) Antibody (ABIN7043409 and ABIN7044554) is a highly specific monoclonal antibody directed against an extracellular epitope of the human Orai1 channel. The antibody can be used in western blot, immunocytochemical and indirect flow cytometry applications and was designed to recognize Orai1 from human samples only.
Purification:	Affinity purified from cultured hybridoma medium.

Target Details

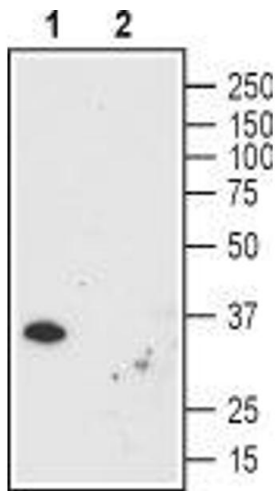
Target:	Orai1
Alternative Name:	Orai1 (ORAI1 Products)
Background:	Alternative names: Orai1, TMEM142A, CRACM1, Calcium release-activated calcium channel protein 1
Gene ID:	84876
NCBI Accession:	NM_032790
UniProt:	Q96D31
Pathways:	TCR Signaling , BCR Signaling

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

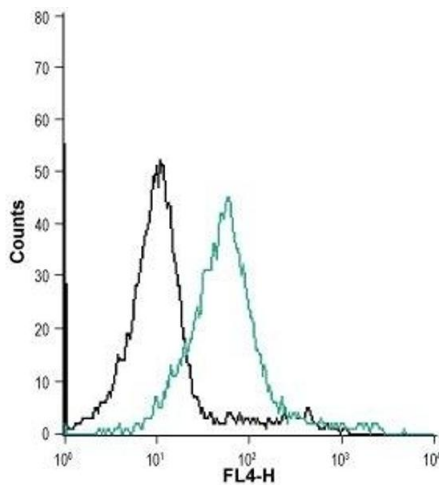
Handling

Format:	Lyophilized
Reconstitution:	25 µL or 100 µL double distilled water (DDW), depending on the sample size.
Concentration:	1 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT, 4 °C, -20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



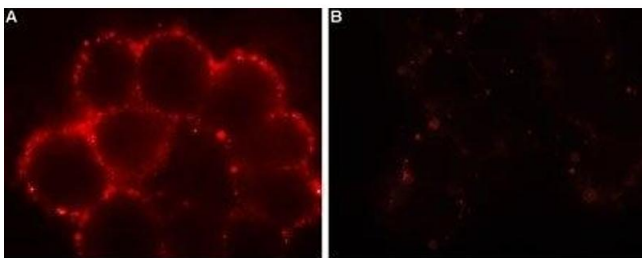
Western Blotting

Image 1. Western blot analysis using Mouse Anti-Human Orai1 (extracellular) Antibody (ABIN7043409 and ABIN7044554), (1:200): - 1. HEK-293 cells transfected with human Orai1.2. HEK-293 cells transfected with control vector.



Flow Cytometry

Image 2. Cell surface detection of Orai1 in intact living Jurkat cells: (black line) Unstained cells. (green line) Cells + Mouse Anti-Human Orai1 (extracellular) Antibody (ABIN7043409 and ABIN7044554), (5-10 µg antibody/0.5-1 x 10⁶ cells).



Immunocytochemistry

Image 3. Expression of Orai1 in HEK-293 transfected cells - Cell surface detection of Orai1 in intact living HEK-293 cells expressing Orai1. A. Extracellular staining of HEK-293 cells transfected with Orai1 using Mouse Anti-Human Orai1 (extracellular) Antibody (ABIN7043409 and ABIN7044554), (red). B. Cells transfected with the empty vector show no Orai1 staining.