

Rabbit anti-Mouse, Rat ORAI1 Polyclonal Antibody | anti-ORAI1 antibody

RABBIT ANTI ORAI1 (C-TERMINAL)

CATALOG # AAA50018	HOST Rabbit	REACTIVITY Mouse, Rat	APPLICATIONS Western Blot, Immunohistochemistry
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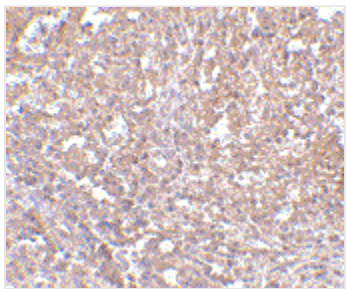
PRODUCT SYNONYMS

ORAI1; Polyclonal Antibody; RABBIT ANTI ORAI1 (C-TERMINAL); anti-ORAI1 antibody

PRODUCT SPECIFICATIONS

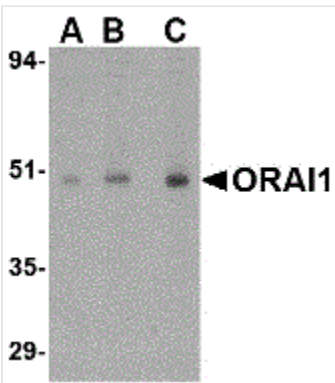
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	This item recognises human ORAI1, also known as Transmembrane protein 142A (TMEM142A), a 32.7 kDa multi-pass membrane protein belonging to the ORAI family. Antigen stimulation of immune cells triggers Ca²⁺ entry through Ca²⁺ release-activated Ca²⁺ (CRAC) channels. CRAC channels are the main pathway for Ca²⁺ influx in T-cells and promote the immune response to pathogens by activating the transcription factor NFAT. ORAI1 is a four- transmembrane spanning protein that is an essential component of CRAC. ORAI1 functions as a highly selective Ca²⁺ plasma membrane channel that is gated through interactions with STIM1, the store-activated endoplasmic reticulum Ca²⁺ sensor. Defective ORAI1 in humans is the cause of one form of hereditary severe combined immune deficiency (SCID), which results in ablated T-cell Ca²⁺ entry. This item is not expected to cross react with either ORAI2 or ORAI3.
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0mg/ml (varies by lot)
Sequence Length	301
Applicable Applications for anti-ORAI1 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Perservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Immunogen	A 16 amino acid peptide from near the carboxy terminus of human ORAI1. Buffer Solution
Antiserum Preparation	Antiserum to human ORAI1 was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Target Species	Human
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.

IMAGES



Application Data

Formalin fixed, paraffin embedded human spleen stained with Rabbit anti Human ORAI1 (AAA50018) following heat mediated antigen retrieval using sodium citrate buffer (pH6.0)



Application Data

Western blot analysis of human ovary probed with Rabbit anti Human ORAI1 (AAA50018) at 0.5(A), 1(B) and 2(C) ug/ml

ADDITIONAL INFORMATION

Related Product Information for anti-ORAI1 antibody

MBS222945 recognises human ORAI1, also known as Transmembrane protein 142A (TMEM142A), a 32.7 kDa multi-pass membrane protein belonging to the ORAI family. Antigen stimulation of immune cells triggers Ca2+ entry through Ca2+ release-activated Ca2+ (CRAC) channels. CRAC channels are the main pathway for Ca2+ influx in T-cells and promote the immune response to pathogens by activating the transcription factor NFAT. ORAI1 is a four-transmembrane spanning protein that is an essential component of CRAC. ORAI1 functions as a highly selective Ca2+ plasma membrane channel that is gated through interactions with STIM1, the store-activated endoplasmic reticulum Ca2+ sensor. Defective ORAI1 in humans is the cause of one form of hereditary severe combined immune deficiency (SCID), which results in ablated T-cell Ca2+ entry. MBS222945 is not expected to cross react with either ORAI2 or ORAI3.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38016943
NCBI GeneID	84876
NCBI Accession #	NP_116179.2
NCBI GenBank Nucleotide #	NM_032790.3
UniProt Accession #	Q96D31; Q3MHV3; Q6DHX2; Q96BP7; Q96K71
Molecular Weight	25,337 Da
NCBI Official Full Name	calcium release-activated calcium channel protein 1
NCBI Official Synonym Full Names	ORAI calcium release-activated calcium modulator 1
NCBI Official Symbol	ORAI1
NCBI Official Synonym Symbols	IMD9; TAM2; ORAT1; CRACM1; TMEM142A
NCBI Protein Information	calcium release-activated calcium channel protein 1; calcium release-activated calcium modulator 1; protein orai-1; transmembrane protein 142A
UniProt Protein Name	Calcium release-activated calcium channel protein 1
UniProt Gene Name	ORAI1
UniProt Synonym Gene Names	CRACM1; TMEM142A
UniProt Entry Name	CRCM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/orai1-antibody-western-blot-immunohistochemistry-elisa/50018>