

Rabbit anti-Mouse, Rat ORAI3 Polyclonal Antibody | anti-ORAI3 antibody

RABBIT ANTI ORAI3 (N-TERMINAL)

CATALOG # AAA50019	HOST Rabbit	REACTIVITY Mouse, Rat	APPLICATIONS Western Blot, Immunohistochemistry
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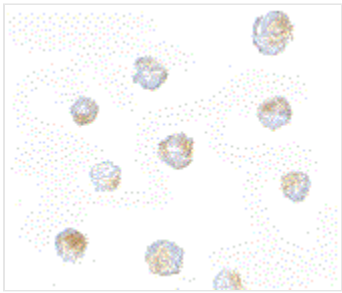
PRODUCT SYNONYMS

ORAI3; Polyclonal Antibody; RABBIT ANTI ORAI3 (N-TERMINAL); anti-ORAI3 antibody

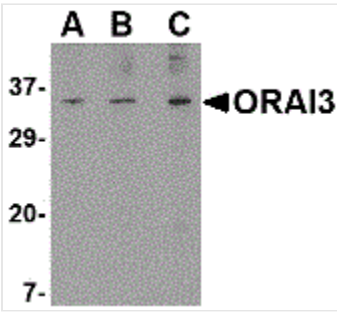
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	This item recognises human ORAI3, also known as Transmembrane protein 142C (TMEM142C), a 31.5 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. ORAI3 is one of two mammalian homologs of ORAI1, a four- transmembrane spanning protein that is an essential component of CRAC channels. ORAI3, along with ORAI1 and ORAI2, functions as a Ca²⁺ plasma membrane channel that is gated through interactions with STIM1, the store-activated endoplasmic reticulum Ca²⁺ sensor. Studies indicate that ORAI3 channels undergo a lesser degree of depotentiation than ORAI1 or ORAI2. This item is not expected to cross react with either ORAI1 or ORAI2.
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0mg/ml (varies by lot)
Sequence Length	295
Applicable Applications for anti-ORAI3 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Perservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Immunogen	A 15 amino acid peptide from near the amino terminus of human ORAI3. Buffer Solution
Antiserum Preparation	Antiserum to human ORAI3 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
Immunocytochemical staining of A20 cells with Rabbit anti Human ORAI3 (AAA50019)



Application Data
Western blot analysis of whole cell lysate from A20 mouse B-cell lymphoma cells probed with Rabbit anti Human ORAI3 (AAA50019) at 1(A), 2(B) and 4(C) ug/ml

ADDITIONAL INFORMATION

Related Product Information for anti-ORAI3 antibody	MBS222947 recognises human ORAI3, also known as Transmembrane protein 142C (TMEM142C), a 31.5 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. ORAI3 is one of two mammalian homologs of ORAI1, a four- transmembrane spanning protein that is an essential component of CRAC channels. ORAI3, along with ORAI1 and ORAI2, functions as a Ca2+ plasma membrane channel that is gated through interactions with STIM1, the store-activated endoplasmic reticulum Ca2+ sensor. Studies indicate that ORAI3 channels undergo a lesser degree of depotentiation than ORAI1 or ORAI2. MBS222947 is not expected to cross react with either ORAI1 or ORAI2.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	22748651
NCBI GeneID	93129
NCBI Accession #	NP_689501.1
NCBI GenBank Nucleotide #	NM_152288.2
UniProt Accession #	Q9BRQ5; Q96BI8
Molecular Weight	31,499 Da
NCBI Official Full Name	protein orai-3
NCBI Official Synonym Full Names	ORAI calcium release-activated calcium modulator 3
NCBI Official Symbol	ORAI3
NCBI Official Synonym Symbols	TMEM142C
NCBI Protein Information	protein orai-3; transmembrane protein 142C
UniProt Protein Name	Protein orai-3
UniProt Gene Name	ORAI3
UniProt Synonym Gene Names	TMEM142C
UniProt Entry Name	ORAI3_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.