

Mouse anti-Human, Rat ORAI3 Monoclonal Antibody | anti-ORAI3 antibody

ORAI3 Antibody [2H2G9]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA39205	Mouse	Human, Rat	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

ORAI3; Monoclonal Antibody; ORAI3 Antibody [2H2G9]; ORAI3 Antibody [2H2G9] : TMEM142C; ORAI calcium release-activated calcium modulator 3; anti-ORAI3 antibody

PRODUCT SPECIFICATIONS

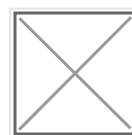
Host	Mouse
Reactivity	Human, Rat
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	2H2G9
Purity/Purification	ORAI3 Monoclonal Antibody is immunoaffinity chromatography purified IgG.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	295
Applicable Applications for anti-ORAI3 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	A 19 amino acid synthetic peptide from near the carboxy terminus of human ORAI3.
Buffer	ORAI3 Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	ORAI3 monoclonal antibody can be stored at -20 degree C, stable for one year.

IMAGES



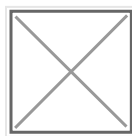
IF (Immunofluorescence)

Immunofluorescence of ORAI3 in human spleen tissue with ORAI3 antibody at 5 μg/ml. Green: ORAI3 antibody Red: Phalloidin staining Blue: DAPI staining



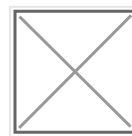
IF (Immunofluorescence)

Immunofluorescence of ORAI3 in rat spleen tissue with ORAI3 antibody at 5 μg/mL.



IHC (Immunohistochemistry)

Immunohistochemistry of ORAI3 in rat spleen tissue with ORAI3 antibody at 2.5 μg/mL.



WB (Western Blot)

Western blot analysis of ORAI3 in rat spleen lysate with ORAI3 antibody at 1 μg/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-ORAI3 antibody	ORAI3 Monoclonal Antibody: Antigen stimulation of immune cells triggers Ca++ entry through Ca++ release-activated Ca++ (CRAC) channels. ORAI3 is one of two mammalian homologs to ORAI1, a recently identified four-transmembrane spanning protein that is an essential component of CRAC. All three homologs have been shown to function as Ca++ plasma membrane channels gated through interactions with STIM1, the store-activated endoplasmic reticulum Ca++ sensor. However, ORAI3 channels failed to produce detectable Ca++ selective currents in cells co-transfected with ORAI3 and STIM1, indicating that ORAI3 channels undergo a lesser degree of depotentiation than ORAI1 or ORAI2. Na+ currents through ORAI1, 2 and 3 channels were equally inhibited by extracellular Ca++, indicating that each have similar affinities for Ca++ within the selectivity filter. This antibody is predicted to have no cross-reactivity to ORAI1 or ORAI2. Larger molecular weight bands are sometimes seen in SDS-PAGE; these may represent post-translationally modified ORAI 3.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	74732916
NCBI GeneID	93129
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.