

Product datasheet for **TA320075**

ORAI3 Mouse Monoclonal Antibody [Clone ID: 2H2G9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2H2G9
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 2 ug/mL, ICC: 2.5 ug/mL, IF: 5 ug/mL
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	A 19 amino acid synthetic peptide from near the carboxy terminus of human ORAI3.
Formulation:	ORAI3 Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	ORAI3 Monoclonal Antibody is immunoaffinity chromatography purified IgG.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	ORAI calcium release-activated calcium modulator 3
Database Link:	NP_689501 Entrez Gene 309000 Rat Entrez Gene 93129 Human Q9BRQ5



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Background:

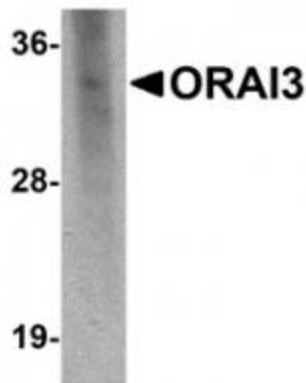
ORA13 Monoclonal Antibody: Antigen stimulation of immune cells triggers Ca^{++} entry through Ca^{++} release-activated Ca^{++} (CRAC) channels. ORAI3 is one of two mammalian homologs to ORAI1, a recently identified four-transmembrane spanning protein that is an essential component of CRAC. All three 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.

Synonyms:

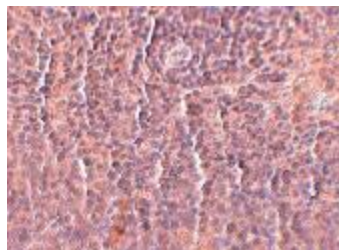
TMEM142C

Protein Families:

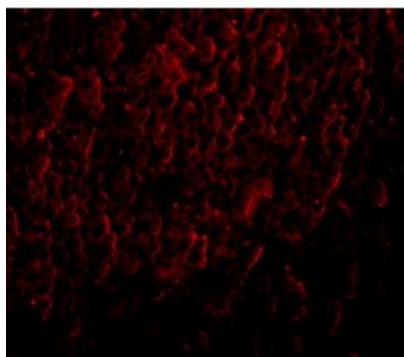
Transmembrane

Product images:

Western blot analysis of ORAI3 in rat spleen lysate with ORAI3 antibody at 2 ug/mL.



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



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