

## Product datasheet for TA320076

### ORAI3 Mouse Monoclonal Antibody [Clone ID: 1B4F1]

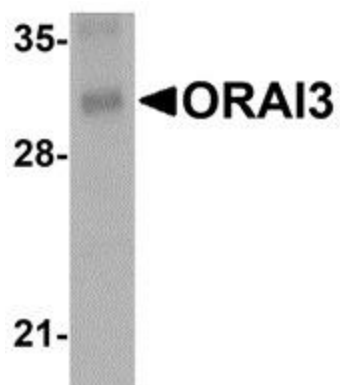
#### Product data:

Product Type:	Primary Antibodies
Clone Name:	1B4F1
Applications:	WB
Recommend Dilution:	WB: 2 ug/mL
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG2b
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.
Gene Name:	ORAI calcium release-activated calcium modulator 3
Database Link:	<a href="#">NP_689501 Entrez Gene</a> <a href="#">309000 RatEntrez Gene</a> <a href="#">93129 Human</a>
Background:	ORAI3 Monoclonal Antibody: Antigen stimulation of immune cells triggers Ca <sup>++</sup> entry through Ca <sup>++</sup> release-activated Ca <sup>++</sup> (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 <sup>++</sup> plasma membrane channels gated through interactions with STIM1, the store-activated endoplasmic reticulum Ca <sup>++</sup> sensor. However, ORAI3 channels failed to produce detectable Ca <sup>++</sup> 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 <sup>+</sup> currents through ORAI1, 2 and 3 channels were equally inhibited by extracellular Ca <sup>++</sup> , indicating that each have similar affinities for Ca <sup>++</sup> 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



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## Product images:



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