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# anti-ORAI3 antibody (N-Term)

2 Images

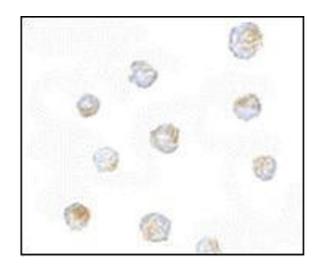


Go to Product page

Overview	
Quantity:	0.1 mg
Target:	ORAI3
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ORAI3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Enzyme Immunoassay (EIA)
Product Details	
Immunogen:	ORAI3 antibody was raised against a 15 amino acid peptide from near the amino terminus of human ORAI3.
Isotype:	IgG
Specificity:	This antibody detects ORAI3 at N-term. It is predicted to have no cross-reactivity to ORAI1 or ORAI2.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse, rat
Purification:	Peptide affinity chromatography
Target Details	
Target:	ORAI3

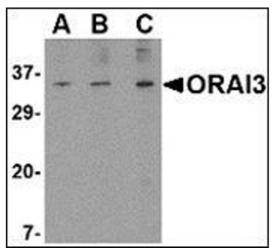
## **Target Details**

Alternative Name:	ORAI3 (ORAI3 Products)
Background:	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. Synonyms: ORAI-3, TMEM142C, Transmembrane Protein 142C
Gene ID:	93129
UniProt:	Q9BRQ5
Application Details	
Application Notes:	ELISA. Western blot: 1 - 2 μg/mL. Immunoflourescence.
	Other applications not tested.
	Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only
Handling	
Buffer:	PBS containing 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.



### Immunofluorescence

**Image 1.** Immunocytochemistry of ORAI3 in A20 cells with this product at  $10 \, \mu g/ml$ .



### **Western Blotting**

**Image 2.** Western blot analysis of ORAI3 in A20 cell lysate with this product at (A) 1, (B) 2 and (C)  $4 \mu g/ml$ .