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anti-ORAI1 antibody (N-Term)

2 Images



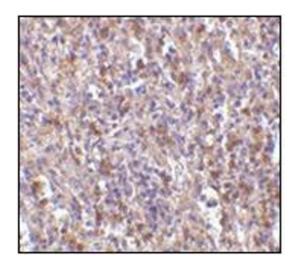
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Quantity:	0.1 mg
Target:	ORAI1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ORAI1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)
Product Details	
Immunogen:	ORAI1 antibody was raised against a 18 amino acid peptide from near the amino terminus of human ORAI1.
Isotype:	IgG
Specificity:	This antibody detects ORAI1 at N-term. It is predicted to have no cross-reactivity to ORAI2 or ORAI3.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse
Purification:	Peptide affinity chromatography
Target Details	
Target:	ORAI1

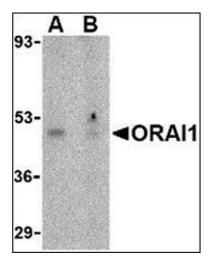
Target Details

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Alternative Name:	ORAI1 (ORAI1 Products)			
Background:	Antigen stimulation of immune cells triggers Ca++ entry through Ca++ release-activated Ca++			
	(CRAC) channels. ORAI1 is a recently identified four-transmembrane spanning protein that is a			
	essential component of CRAC. A missense mutation in this protein in humans is the cause of			
	one form of hereditary severe combined immune deficiency (SCID) which results in ablated T-			
	cell Ca++ entry. It has been suggested that ORAI1 functions as a highly selective Ca++ plasma			
	membrane channel that is gated through interactions with STIM1, the store-activated			
	endoplasmic reticulum Ca++ sensor. ORAI1 often migrates at a higher than expected molecula			
	weight in SDS-PAGE.Synonyms: CRACM1, Calcium release-activated calcium channel protein 1			
	ORAI-1, Protein orai-1, TMEM142A, Transmembrane protein 142A			
Gene ID:	84876			
UniProt:	Q96D31			
Pathways:	TCR Signaling, BCR Signaling			
Application Details				
Application Notes:	ELISA. Western blot: 0.5 - 1 µg/mL. Immunohistochemistry on paraffin sections.			
	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.			



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of ORAI1 in human spleen tissue with this product at 10 μ g/ml.



Western Blotting

Image 2. Western blot analysis of ORAI1 in human ovary tissue lysate with this product at 1 μ g/ml in the (A) absence or (B) presence of blocking peptide.