

Datasheet: AHP1496 BATCH NUMBER 157985

Description:	RABBIT ANTI ORAI3 (N-TERMINAL)
Specificity:	ORAI3 (N-TERMINAL)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications	This product has been reported to work in the following applications. This information is						
	derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-</u>						
	rad-antibodies.com/proto	rad-antibodies.com/protocols.					
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry			•			
	Immunohistology - Frozen	•			10ug/ml		
	Immunohistology - Paraffin			•			
	ELISA			•			
	Immunoprecipitation			•			
	Western Blotting	-			1 - 2ug/ml		
	Functional Assays	Functional Assays					
	necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.						
Target Species	Human						
Species Cross	Reacts with: Rat, Mouse						
Reactivity	N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or						
	personal communications from the originators. Please refer to references indicated for						
	further information.		0				
Product Form	Purified IgG - liquid						
Antiserum Prepara	tion Antiserum to human ORA	AI3 was ra	aised by r	epeated immunisation	of rabbits with highly		

purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution	Phosphate buffered saline			
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)			
Approx. Protein Concentrations	IgG concentration 1.0mg/ml			
Immunogen	A 15 amino acid peptide from near the amino terminus of human ORAI3.			
External Database Links	UniProt: <u>Q9BRQ5</u> <u>Related reagents</u> Entrez Gene: <u>93129</u> ORAI3 <u>Related reagents</u>			
Synonyms	TMEM142C			
RRID	AB_2157578			
Specificity	 Rabbit anti Human ORAI3 antibody recognizes the N-terminal region of human ORAI3, also known as Transmembrane protein 142C (TMEM142C), a 31.5 kDa multi-pass membrane protein belonging to the ORAI family. Antigen stimulation of immune cells triggers Ca²⁺ entry through Ca²⁺ release-activated Ca²⁺ (CRAC) channels. CRAC channels are the main pathway for Ca²⁺ influx in T-cells and promote the immune response to pathogens by activating the transcription factor NFAT. ORAI3 is one of two mammalian homologs of ORAI1, a four- transmembrane spanning protein that is an essential component of CRAC channels. ORAI3, along with ORAI1 and ORAI2, functions as a Ca²⁺ plasma membrane channel that is gated through interactions with STIM1, the store-activated endoplasmic reticulum Ca²⁺ sensor. Studies indicate that ORAI3 channels undergo a lesser degree of depotentiation than ORAI1 or ORAI2. Rabbit anti Human ORAI3 antibody (AHP1496) is not expected to cross react with either ORAI1 or ORAI2. 			
Western Blotting	AHP1496 detects a band of approximately 35kDa in A20 cell lysates.			
Further Reading	 Feske, S., <i>et al.</i> (2006) A mutation in Orai1 causes immune deficiency by abrogating CRAC channel function. <u>Nature</u>; 441:179-85 Soboloff, J. <i>et al.</i> (2006) Calcium signals mediated by STIM and Orai proteinsa new paradigm in inter-organelle communication. <u>Biochim Biophys Acta. 1763 (11): 1161-8.</u> Mercer, J.C. <i>et al.</i> (2006) Large store-operated calcium selective currents due to co-expression of Orai1 or Orai2 with the intracellular calcium sensor, Stim1. <u>J Biol Chem.</u> <u>281 (34): 24979-90.</u> Lewis, R.S. (2001) Calcium signaling mechanisms in T lymphocytes. <u>Annu Rev</u> 			

Immunol. 19: 497-521.

Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP1496 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)FITCGoat Anti Rabbit IgG (Fc) (STAR121...)Biotin, FITC, HRPSheep Anti Rabbit IgG (STAR35...)RPEGoat Anti Rabbit IgG (H/L) (STAR124...)HRP

Recommended Useful Reagents

TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M363946:200529'

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