

Datasheet: AHP2264

Description:	GOAT ANTI HUMAN MIB1
Specificity:	MIB1
Other names:	MIND BOMB HOMOLOG 1
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin (1)	■			
ELISA	■			1/16000
Immunoprecipitation			■	
Western Blotting	■			0.5 - 1.0ug/ml

Where this product has not been tested for use in a particular technique this does not 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.

(1) This product requires antigen retrieval using heat treatment. Sodium citrate buffer pH6.0 is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Mouse, Rat, Bovine, Dog N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to human MIB1 was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Buffer Solution	TRIS buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃) 0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5mg/ml

Immunogen	Synthetic peptide sequence C-DKDNTNVNADVQKLQ from the internal region of MIB1 (NP_065825.1).
External Database Links	UniProt: Q86YT6 Related reagents Entrez Gene: 57534 MIB1 Related reagents
Synonyms	DIP1, KIAA1323, ZZANK2
Specificity	Goat anti Human MIB-1 antibody recognizes human E3 ubiquitin-protein ligase MIB1, also known as Mind bomb homolog 1, DAPK-interacting protein 1 or Zinc finger ZZ type with ankyrin repeat domain protein 2, encoded by the MIB1 gene. E3 ubiquitin-protein ligase MIB1 is a 1006 amino acid ~130 kDa E3 ubiquitin-protein ligase which plays a role in the regulation of apoptosis through DAPK interaction, and also a key role in the positive regulation of the Notch signaling pathway. MIB1 mediates the ubiquitination of the intracellular domain of the major Notch ligands known as Delta receptors, resulting in their endocytosis and degradation, and subsequently in the up-regulation of receptor activity and Notch pathway activation/signaling. MIB1 is highly expressed in the brain, spinal cord and ovaries, and elevated levels of both MIB1 and DAPK are found in the cytoplasm and microsomal fractions of epilepsy brain tissue. Mutation of the MIB1 gene leads to the development of Left ventricular non-compaction 7 (LVNC7), a disease caused by incomplete cardiac muscle development, characterized by a hypotrophic left ventricle (Luxán et al. 2013), although it may on occasions be associated with other myocardial abnormalities (Ströllberger et al. 2002).
Western Blotting	AHP2264 detects a band of approximately 135kDa in HEK293 lysate transiently expressing Human MIB1 tagged with myc and DYKDDDDK.
Further Reading	1. Bray, S.J. (2006) Notch signalling: a simple pathway becomes complex. Nat Rev Mol Cell Biol. 7 (9): 678-89.
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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10058 available at: 10058: https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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