Mouse monoclonal antibody to human LPP3 [7H7D3]: Affinity purified

Catalogue No.:	M-1560-100
Description:	Lipid phosphate phosphohydrolase 3 (LPP3) is a member of the phosphatidic acid phosphatase (PAP) family. LPP3 catalyzes the conversion of phosphatidic acid to diacylglycerol. In addition it hydrolyzes lysophosphatidic acid, ceramide-1-phosphate and sphingosine-1-phosphate (Ref: SWISSPROT).
Batch No.:	See product label.
Unit size:	100 ug
Antigen:	A synthetic peptide from human LPP3 (179-196 aa) conjugated to KLH.
Sequence:	YRCRGDDSKVQEARKSFFc-KLH
Isotype:	Tests as a mouse IgG, with mixed subclasses of IgG1, 2a & 2b
Clone:	7H7D3
Other Names:	Lipid phosphate phosphohydrolase 3; PAP2-beta; Phosphatidate phosphohydrolase type 2b; Phosphatidic acid phosphatase 2b; PAP-2b; PAP2b; Vascular endothelial growth factor and type I collagen-inducible protein; VCIP; PPAP2B;LPP3
Accession:	O14495 LPP3_HUMAN;
Produced in:	Mouse
Molecular Weight:	The LPP3 protein has a predicted length of 311 residues and the MW of the monomer is 35 kDa.
Applications:	Western Blotting (WB), Flow cytometry (FACS) and Immunohistochemistry (IHC). For WB, the recommended concentration is 2-3 ug/mL. For IHC, this antibody has been shown to work on formalin-fixed, paraffin-embedded tissue samples with heat-induced antigen retrieval. The recommended concentration is 0.5-2 ug/mL. For FACS, the recommended concentration is 2.0 ug/mL. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	Confirmed by over-expression of human LPP3 cDNA.
Cross-reactivity:	Human
Form:	Lyophilised from PBS pH 7.4
Reconstitution:	Reconstitute in 100 uL of PBS pH 7.4. Centrifuge to remove any insoluble material.
Storage:	At least 12 months after purchase at 2-8C (lyophilized formulations). After reconstitution, aliquot and store at -20C for a higher stability and at 2-8C with an appropriate antibacterial agent. Avoid freeze-thaw cycles.
Expiry Date:	12 months after purchase
Specific References:	Mueller PA (2016) PPAP2B expression limits lesion formation in murine models of atherosclerosis. Doctoral Dissertation. Species: Mouse. Application: IHC. Reschen ME, Gaulton KJ, Lin D, Soilleux EJ, Morris AJ, Smyth SS and O'Callaghan CA (2015)

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Lipid-induced epigenomic changes in human macrophages identify a coronary artery disease-associated variant that regulates PPAP2B Expression through Altered C/EBP-beta binding.
PLoS Genet. 2015 Apr 2;11(4):e1005061. Species: Human. Application: IHC with heat-induced antigen retrieval.

Humtsoe JO, Liu M, Malik AB and Wary KK (2010) Lipid phosphate phosphatase 3 stabilization of beta-catenin induces endothelial cell migration and formation of branching point structures.
Mol Cell Biol. Apr;30(7):1593-606. Species: Human. Application: WB and IHC.

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