

Secretory Phospholipase A2 Receptor 1 Recombinant Protein | PLA2R1 recombinant protein

Recombinant Human Secretory Phospholipase A2 Receptor 1, PLA2R1

CATALOG # AAA47142	HOST HEK293 Cells	APPLICATIONS Functional Assay, Western Blot
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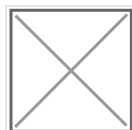
PRODUCT SYNONYMS

Secretory Phospholipase A2 Receptor 1; Recombinant Human Secretory Phospholipase A2 Receptor 1; PLA2R1; 180 kDa secretory phospholipase A2 receptor; C-type lectin domain family 13 member C; M-type receptor; PLA2R1 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	Affinity chromatography. >95% as estimated by SDS-PAGE stained with Instant Blue Stain (Expedeon).
Form/Format	PBS 10% Glycerol
Concentration	Amounts and concentration: 80ul of 1.74mg/mL by A280 absorbance = 139ug total protein (varies by lot)
Sequence Positions	21-173aa
Sequence	EGVAAALTPE RLLEWQDKGI FVIQSESLKK CIQAGKSVLT LENCKQANKH MLWKWVSNHG LFNIGGSGCL GLNFSAPQEP LSLYECDSL VSLRWRCNRK MITGPLQYSV QVAHDNTVVA SRKYIHKWIS YGSGGGDICE YLHKDLHTIK GNTGSGHHHH HHHHHHRRKR
Applicable Applications for PLA2R1 recombinant protein	FA (Functional Assay), IA (Immunoassay), WB (Western Blot)
Species	Human
Tag	10xHis at the C-terminus
Endotoxin	Less than 0.1ng/ug (1 IEU/ug), as measured by LAL method.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store at -20 degree or -70 degree C for at least 12 months preferably in small aliquots to avoid repeated freeze-thaw cycles. Ships on Dry ice

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PLA2R1 recombinant protein	PLA2R is a type I transmembrane glycoprotein of 180-200 kDa and is present in a widevariety of cells and tissues (1). Receptor for secretory phospholipase A2 (sPLA2) belongingto the mannose receptor family (2). It is composed of a large extracellular N-terminalportion, consisting of a N-terminal cystein-rich region, a fibronectin-like type II domain, atandem repeat of eight carbohydrate-recognition domains essential for ligand binding, and short intracellular C-terminal region. Acts as a receptor for phosholipase sPLA2-IB/PLA2G1B. Also able to bind to snake PA2-like toxins. Binding of sPLA2-IB/PLA2G1B induces various effects depending on the cell type, such as activation of the mitogenactivated protein kinase (MAPK) cascade to induce cell proliferation, the production of lipidmediators, selective release of arachidonic acid in bone marrow-derived mast cells. Inneutrophils, binding of sPLA2-IB/PLA2G1B can activate p38 MAPK to stimulate elastaserelease and cell adhesion. May be involved in responses in proinflammatory cytokine productions during endotoxic shock (3). The soluble secretory phospholipase A2 receptorform is circulating and acts as a negative regulator of sPLA2 functions by blocking thebiological functions of sPLA2-IB/PLA2G1B. PLA2R is expressed on the surface of podocytes and represents a target auto antigen in 70%of patients with idiopathic membranous nephropathy (4). It has a test value indetecting and quantifying anti-PLA2R autoimmunity.
References	Fresquet M., Jowitt TA., Gummadova J., Collins R., O'Cualain R., McKenzie EA., Lennon R. and PE. Brencley. Identification of a Major Epitope Recognised by PLA2R Autoantibodies in Primary Membranous Nephropathy. Journal of American Society of Nephrology. Vol. 26, No 2, pp 302-313. 2015.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119631798
NCBI GeneID	22925
UniProt Accession #	Q13018; Q13019; Q15095; Q53R45; Q53RR7; B2RTU9; D3DPB1
Molecular Weight	Predicted MW: 19.3 kDa Estimated MW SDS-PAGE: ~24 kDa
NCBI Official Full Name	phospholipase A2 receptor 1, 180kDa, isoform CRA_b
NCBI Official Synonym Full Names	phospholipase A2 receptor 1, 180kDa
NCBI Official Symbol	PLA2R1
NCBI Official Synonym Symbols	PLA2R; PLA2-R; PLA2IR; CLEC13C; PLA2G1R
NCBI Protein Information	secretory phospholipase A2 receptor; M-type receptor; phospholipase A2 receptor 1, 180kD; C-type lectin domain family 13 member C; 180 kDa secretory phospholipase A2 receptor
UniProt Protein Name	Secretory phospholipase A2 receptor
UniProt Gene Name	PLA2R1
UniProt Synonym Gene Names	CLEC13C; PLA2-R; PLA2R; Soluble PLA2-R
UniProt Entry Name	PLA2R_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/pla2r1-recombinant-protein-hek293-cells-fa-functional-assay-ia-immunoassay-wb-western-blot/47142>