

Secretory Phospholipase A2 Receptor 1 Recombinant Protein | PLA2R1 recombinant protein

Recombinant Human Secretory Phospholipase A2 Receptor 1, PLA2R1

CATALOG #
AAA47141

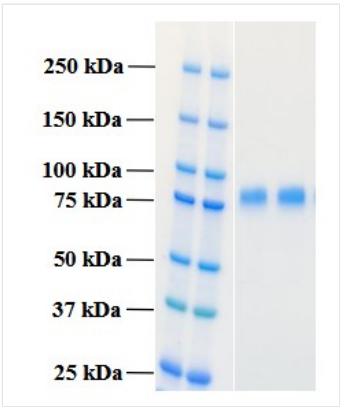
HOST
HEK293

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
Purity/Purification	Grade & Purity: >95% as estimated by SDS-PAGE stained with Instant Blue Stain (Expedeon)
Form/Format	PBS 20% Glycerol
Sequence Positions	21-663aa
Sequence	EGVAAALTPE RLLEWQDKGI FVIQSESLKK CIQAGKSVLT LENCKQANKH MLWKWVSNHG LFNIGGSGCL GLNFSAPQEQ LSLYECDSL VSLRWRCNRK MITGPLQYSV QVAHDNTVVA SRKYIHKWIS YGSGGGDICE YLHKDLHTIK GNTHGMPCMF PFQYNHQWHH ECTREGREDD LLWCATTSRY ERDEKWGFCP DPTSAEVGCD TIWEKDLNSH ICYQFNLLSS LSWSEAHSSC QMQGGTLLSI TDETEENFIR EHMSSKTVEV WMGLNQLDEH AGWQWSDGTP LNYLNWSPEV NFEPFVEDHC GTFSSFMPSA WRSRDCESTL PYICKKYLNH IDHEIVEKDA WKYYATHCEP GWNPNYRNCY KLQKEEKTWH EALRSCQADN SALIDITSLA EVEFLVTLLG DENASETWIG LSSNKIPVSF EWSNDSSVIF TNWHTLEPHI FPNRSQLCVS AEQSEGHWKV KNCEERLFYI CKKAGHVLSL AESGCQEGWE RHGGFCYKID TVLRSFDQAS SGYYCPPALV TITNRFQAF ITSLISSVVK MKDSYFWIAL QDQNDTGEYT WKPVGQKPEP VQYTHWNTHQ PRYSGGCVAM RGRHPLGRWE VKHCRHFKAM SLCKQPVENQ EKAIEEERWP FHPGSGHHHH HHHHHH
Source	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	The protein should be stored at -20°C to -70°C preferably in small aliquots to avoid repeated freeze-thaw cycles. It can be stored at 2°C to 8°C for 1 Month.



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 wide variety of cells and tissues (1). Receptor for secretory phospholipase A2 (sPLA2) belonging to the mannose receptor family (2). It is composed of a large extracellular N-terminal portion, consisting of a N-terminal cysteine-rich region, a fibronectin-like type II domain, a tandem repeat of eight carbohydrate-recognition domains essential for ligand binding, and short intracellular C-terminal region. Acts as a receptor for phospholipase 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 mitogen-activated protein kinase (MAPK) cascade to induce cell proliferation, the production of lipid mediators, selective release of arachidonic acid in bone marrow-derived mast cells. In neutrophils, binding of sPLA2-IB/PLA2G1B can activate p38 MAPK to stimulate elastase release and cell adhesion. May be involved in responses in proinflammatory cytokine productions during endotoxic shock (3). The soluble secretory phospholipase A2 receptor form is circulating and acts as a negative regulator of sPLA2 functions by blocking the biological functions of sPLA2-IB/PLA2G1B. PLA2R is expressed on the surface of podocytes and represents a target autoantigen in 70% of patients with idiopathic membranous nephropathy (4). It has a test value in detecting and quantifying anti-PLA2R autoimmunity.
References	Fresquet M., Jowitt TA., Gummadova J., Collins R., O’Cualain R., McKenzie EA., Lennon R. and P.E. Brenchley. 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 Molecular Weight: 75.8 kDa Estimated Molecular Weight, SDS-PAGE: ~85 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-hek293/47141>