

Recombinant Homo sapiens Secretory phospholipase A2 receptor



Catalog No: #AP73057

Orders: order@signalwayantibody.com

Package Size: #AP73057-1 20ug #AP73057-2 100ug #AP73057-3 1mg

Support: tech@signalwayantibody.com

Description

Product Name	Recombinant Homo sapiens Secretory phospholipase A2 receptor
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:395-530aaSequence Info:Partial
Other Names	180KDA secretory phospholipase A2 receptorC-type lectin domain family 13 member CM-type receptor
Accession No.	Q13018
Uniprot	Q13018
GeneID	22925;
Calculated MW	17.4 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	EEKTWHEALRSCQADNSALIDITSLAEVEFLVTLGDNASETWIGLSSNKIPVSFEWSNDSSVIFTNWHLTLEP HIFPNRSQLCVSAEQSEGHWKVKNCEERLFYICKKAGHVLSDAESGCQEGWERHGGFCYKID
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Receptor for secretory phospholipase A2 (sPLA2). Acts as a receptor for phospholipase sPLA2-IB,PLA2G1B but not sPLA2-IIA,PLA2G2A. Also able to bind to snake PA2-like toxins. Although its precise function remains unclear, binding of sPLA2 to its receptor participates in both positive and negative regulation of sPLA2 functions as well as clearance of sPLA2. 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. Also has endocytic properties and rapidly internalizes sPLA2 ligands, which is particularly important for the clearance of Extracellular domain sPLA2s to protect their potent enzymatic activities. 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.

References

The human 180-KDA receptor for secretory phospholipases A2. Molecular cloning, identification of a secreted soluble form, expression, and chromosomal localization.Ancian P., Lambeau G., Mattei M.-G., Lazdunski M.J. Biol. Chem. 270:8963-8970(1995)Research Topic:Cardiovascular

Note: This product is for in vitro research use only