

Rabbit anti-Human CYSLTR1 Polyclonal Antibody | anti-CYSLTR1 antibody

CYSLTR1 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286882	Rabbit	Human	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CYSLTR1; Polyclonal Antibody; CYSLTR1 Antibody (Center); Cysteinyl leukotriene receptor 1; CysLTR1; Cysteinyl leukotriene D4 receptor; LTD4 receptor; G-protein coupled receptor HG55; HMTMF81; CYSLT1; anti-CYSLTR1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CYSLTR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 144-172 amino acids from the Central region of human CYSLTR1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	144-172
Sequence Length	337
Applicable Applications for anti-CYSLTR1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Calculated MW	38541
Function	Receptor for cysteinyl leukotrienes mediating bronchoconstriction of individuals with and without asthma. Stimulation by LTD4 results in the contraction and proliferation of smooth muscle, edema, eosinophil migration and damage to the mucus layer in the lung. This response is mediated via a G-protein that activates a phosphatidylinositol-calcium second messenger system. The rank order of affinities for the leukotrienes is LTD4 >>LTE4 = LTC4 >> LTB4.
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Widely expressed, with highest levels in spleen and peripheral blood leukocytes. Lower expression in several tissues, such as lung (mostly in smooth muscle bundles and alveolar macrophages), placenta, small intestine, pancreas, colon and heart.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohiostchemistry)
CYSLTR1 Antibody (Center) (AAA286882)immunohistochemistry analysis in formalin fixed and paraffin embedded human lung tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CYSLTR1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
CYSLTR1 Antibody (Center) western blot analysis in ZR-75-1 cell line lysates (35ug/lane).This demonstrates the CYSLTR1 antibody detected the CYSLTR1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-CYSLTR1 antibody	The cysteinyl leukotrienes LTC4, LTD4, and LTE4 are important mediators of human bronchial asthma. Pharmacologic studies have determined that cysteinyl leukotrienes activate at least 2 receptors, the protein encoded by this gene and CYSLTR2. This encoded receptor is a member of the superfamily of G protein-coupled receptors. Activation of this receptor by LTD4 results in contraction and proliferation of smooth muscle, oedema, eosinophil migration and damage to the mucus layer in the lung.
Product Categories/Family for anti-CYSLTR1 antibody	Neuroscience; GPCR Antibodies
References	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Boulay, M.E., et al. Prostaglandins Leukot. Essent. Fatty Acids 83(1):15-22(2010) Schuurhof, A., et al. Pediatr. Pulmonol. 45(6):608-613(2010) Hasegawa, S., et al. Platelets 21(4):253-259(2010) Sokolowska, M., et al. BMC Immunol. 10, 63 (2009) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	532164733
NCBI GeneID	10800
NCBI Accession #	NP_006630.1; NP_001269116.1; NP_001269117.1
NCBI GenBank Nucleotide #	NM_001282186.1
UniProt Accession #	Q9Y271; Q5JS94; Q8IV19; B2R954; D3DTE4
NCBI Official Full Name	cysteinyl leukotriene receptor 1
NCBI Official Synonym Full Names	cysteinyl leukotriene receptor 1
NCBI Official Symbol	CYSLTR1
NCBI Official Synonym Symbols	CYSLT1; CYSLTR; CYSLT1R; HMTMF81
NCBI Protein Information	cysteinyl leukotriene receptor 1
UniProt Protein Name	Cysteinyl leukotriene receptor 1
UniProt Gene Name	CYSLTR1
UniProt Synonym Gene Names	CYSLT1; CysLTR1; LTD4 receptor
UniProt Entry Name	CLTR1_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.

