

IL1R1 / CD121a active protein

Recombinant Mouse IL1R1 / CD121a Protein (His tag)

CATALOG #
AAA173585

HOST
HEK293 Cells

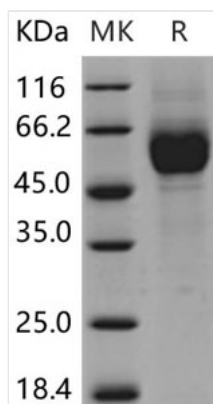
PRODUCT SYNONYMS

IL1R1 / CD121a; Recombinant Mouse IL1R1 / CD121a Protein (His tag); Interleukin-1 receptor type 1; IL-1RT1; IL-1 RI ; CD121b; IL-1R1; IL-iR; IL1r-1; IL1R1 / CD121a active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	> 95 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH 7.4, 7.5% Trehalose
Sequence	Met1-Lys338
Species	Mouse
Tag	C-His
Bio_activity	1. Measured by its ability to bind mouse IL1B in a functional ELISA.2. Immobilized mouse IL1A at 10 ug/mL (100 ul/well) can bind mouse IL1R1. The EC50 of mouse IL1R1 is 0.13 ug/mL.
Endotoxin	< 1.0 EU per ug of the protein as determined by the LAL method.
Reconstitution	It is recommended that sterile water(400ul) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months. Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for IL1R1 / CD121a active protein	Interleukin 1 receptor, type I (IL-1R1) also known as CD121a (Cluster of Differentiation 121a), is an interleukin receptor. IL-1R1/CD121a is a cytokine receptor that belongs to the interleukin 1 receptor family. This protein is a receptor for interleukin alpha (IL1A), interleukin beta (IL1B), and interleukin 1 receptor, type I (IL1R1/IL1RA). IL-1R1/CD121a is an important mediator involved in many cytokine induced immune and inflammatory responses. This protein has been characterized by pharmacological and molecular techniques in the mouse brain. The spindle-shaped astrocytes enclose the wound, separating the healthy from damaged neural tissue. The shape change and subsequent repair processes are IL-1? activity-dependent, acting through the IL-1 type 1 receptor (IL-1R1), as co-application of the IL-1type 1 receptor antagonist protein (IL-1ra) blocks IL-1? induced effects. In the spleen, a slight increase in IL-1R AcP and IL-1R1 was observed during the first hours following LPS stimulation. In conclusion, IL-1R AcP mRNA is expressed in the brain and in other tissues where IL-1R1/CD121a transcripts are found. However, the regulation of its expression is distinct from IL-1R1/CD121a. The high level of expression and the lack of regulation of IL-1R AcP transcripts in the brain under inflammatory conditions suggest that the protein might be constitutively expressed in excess.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6680417
NCBI GeneID	16177
NCBI Accession #	NP_032388.1
NCBI GenBank Nucleotide #	NM_008362.2
UniProt Accession #	P13504
Molecular Weight	Mol_Mass: 38.7 kDa AP_Mol_Mass: 55-60 kDa
NCBI Official Full Name	interleukin-1 receptor type 1 isoform 1
NCBI Official Synonym Full Names	interleukin 1 receptor, type I
NCBI Official Symbol	Il1r1
NCBI Official Synonym Symbols	IL-iR; CD121a; CD121b; IL-1R1; Il1r-1
NCBI Protein Information	interleukin-1 receptor type 1
UniProt Protein Name	Interleukin-1 receptor type 1
UniProt Gene Name	Il1r1
UniProt Synonym Gene Names	Il-1r1; Il1ra; IL-1R-1; IL-1RT-1; IL-1RT1; IL-1R-alpha; mIL-1R1; mIL-1Rl; sIL-1R1; sIL-1Rl

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/hek293-cells-active-protein/il1r1-cd121a/173585>