

Recombinant Human LRRC32 protein, Fc-tagged

Cat. No. LRRC32-396H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human LRRC32 protein (His20-Asn627), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	608
Description	Leucine-rich repeat protein 32 (LRRC32), also known as GARP (glycoprotein A repetitions predominant). LRRC32 expression promotes the acquisition of a Treg phenotype including reduced cellular proliferation, reduced cytokine secretion, and the capacity to suppress the proliferation of naïve T cells. LRRC32 binds directly to the TGF-beta latency associated peptide (LAP) and tethers latent TGF-beta on the surface of activated Treg cells. The presentation of TGF-beta on Tregs contributes to their ability to suppress naïve T cell proliferation.
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 92.4 kDa. The protein migrates as 106 KDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.

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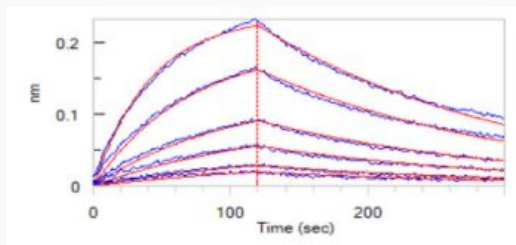
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	LRRC32
Official Symbol	LRRC32
Synonyms	LRRC32; leucine rich repeat containing 32; D11S833E, GARP, glycoprotein A repetitions predominant; leucine-rich repeat-containing protein 32; garpin; glycoprotein A repetitions predominant; GARP; D11S833E
Gene ID	2615
mRNA Refseq	NM_001128922
Protein Refseq	NP_001122394
MIM	137207
UniProt ID	Q14392

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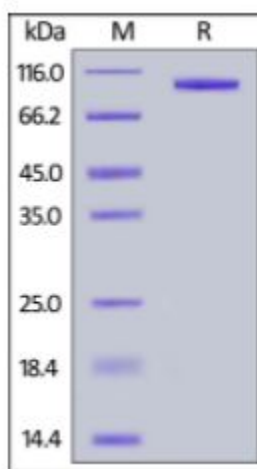
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Bioactivity-BLI of LRRC32-396H



Loaded Human LRRC32, Fc Tag on AHC Biosensor, can bind Human TGFB1, His Tag with an affinity constant of 0.288 μ M as determined in BLI assay (QC tested).

SDS-PAGE of LRRC32-396H



Human LRRC32, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.