

**Synonym**

GARP, Garpin, D11S833E

**Source**

Human LRRC32, Fc Tag(LR2-H5256) is expressed from human 293 cells (HEK293). It contains AA His 20 - Asn 627 (Accession # [Q14392-1](#)).

Predicted N-terminus: His 20

**Molecular Characterization**

LRRC32(His 20 - Asn 627) Q14392-1	Fc(Pro 100 - Lys 330) P01857
--------------------------------------	---------------------------------

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 92.4 kDa. The protein migrates as 105 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in

Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

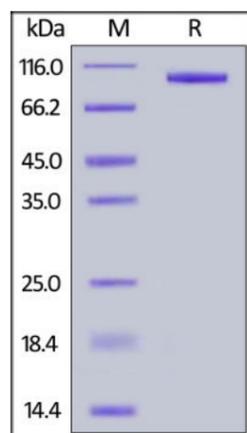
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

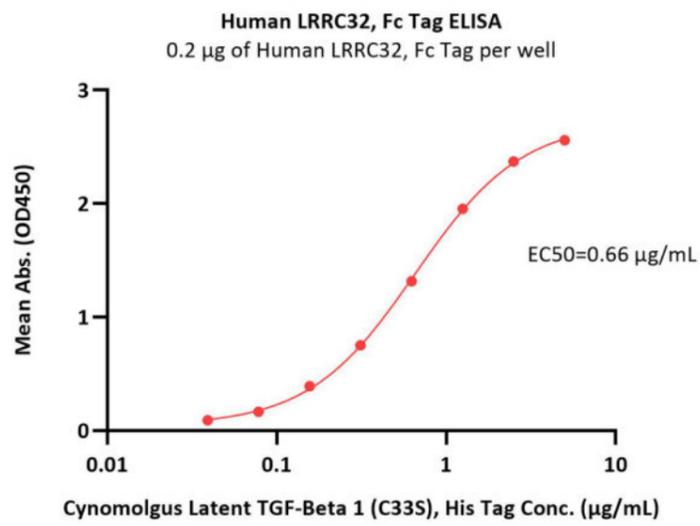
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

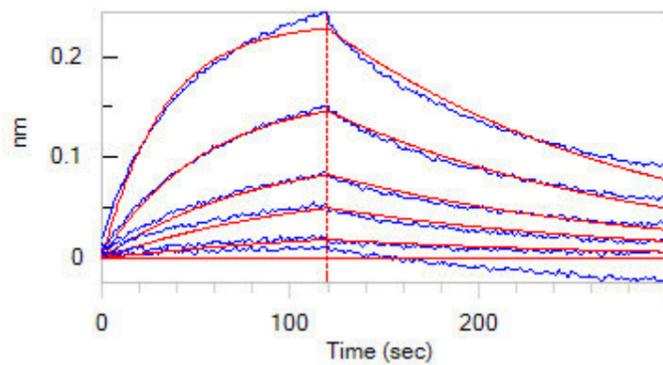
Human LRRC32, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA**



Immobilized Human LRRC32, Fc Tag (Cat. No. LR2-H5256) at 2 µg/mL (100 µL/well) can bind Cynomolgus Latent TGF-Beta 1 (C33S), His Tag (Cat. No. TG1-C5243) with a linear range of 0.039-1.25 µg/mL (Routinely tested).

### Bioactivity-BLI



Loaded Human LRRC32, Fc Tag (Cat. No. LR2-H5256) on AHC Biosensor, can bind Human TGFβ1, His Tag (Cat. No. TG1-H524x) with an affinity constant of 0.239 µM as determined in BLI assay (ForteBio Octet Red96e) (QC tested).

### Background

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.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.