

## LRRC32 Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	Garp;AI426318;leucine rich repeat containing 32;D11S833Eh;D7H11S833E;EG434215
Protein Construction:	A DNA sequence encoding the Mouse LRRC32 (G3XA59) (Met1-Asn628) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Ile 18
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	G3XA59
Molecular Weight:	68.10 kDa (predicted); 67.43 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	≥ 95 % as determined by SDS-PAGE. ≥ 90 % as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris, 150 mM NaCl, 0.02% Tween 80, 10% Trehalose pH 8.5. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

LRRC32 (Leucine-Rich Repeat Containing 32) is a Protein Coding gene. This gene encodes a type I membrane protein which contains 20 leucine-rich repeats. LRRC32, also known as Glycoprotein A Repetitions Predominant (GARP), has been postulated as a novel surface marker of activated T(regs). LRRC32 is a T(reg)-specific receptor that binds latent TGF-beta and dominantly controls FOXP3 and the regulatory phenotype via a positive feedback

loop. It belongs to the LRRC32/LRRC33 family and is broadly expressed in the placenta, lung, and other tissues. Alterations in the chromosomal region 11q13-11q14 are involved in several pathologies. An important paralog of this gene is NRROS.

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