

For Research Use Only

Recombinant Human MYO18A protein (mFc Tag)



Catalog Number: Eg6903

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
mFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Human MYO18A protein Glu220-Pro331 (Accession# Q92614-1) with a mouse IgG Fc tag at the C-terminus.

GeneID:

399687

Accession:

Q92614-1

Predicted Molecular Mass:

38.9 kDa

SDS-PAGE:

39-45 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

MYO18A is an unconventional myosin that may play a role in the stabilization and organization of the actin cytoskeleton. Recently MYO18A has been identified as the receptor of SP and is responsible for clearance of SP-A-opsonized bacteria in vivo infection. Two different isoforms of mouse Myo18A have been identified: Myo18A-alpha and Myo18A-beta as 230- and 190-kDa proteins, respectively. Myo18a-alpha colocalizes with the ER-Golgi complex and with membrane ruffles and filopodia, while Myo18a-beta localizes diffusely to the cytoplasm.

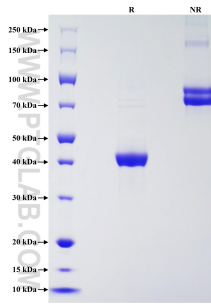
References

1. Buschman, Matthew D, and Seth J Field. Advances in biological regulation vol. 67 (2018): 84-92.
2. Sever-Chroneos, Zvezdana et al. The Journal of biological chemistry vol. 286,6 (2011): 4854-70.
3. Mori, Kentaro et al. Journal of biochemistry vol. 133,4 (2003): 405-13.

Synonyms

CD245, KIAA0216, Molecule associated with JAK3 N-terminus, myosin XVIIIa, myosin XVIIIa

Selected Validation Data



Purity of Recombinant Human MYO18A was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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