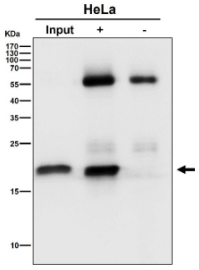
EMC4 Antibody / ER membrane protein complex subunit 4 [clone 30E32] (FY12033)

Catalog No.	Formulation	Size
FY12033	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

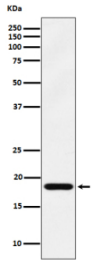
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	30E32
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	Q5J8M3
Applications	Western blot: 1:500-1:2000 Immunohistochemistry: 1:50-1:200 Immunoprecipitation: 1:50
Limitations	This EMC4 antibody is available for research use only.



Immunoprecipitate (IP) analysis using the antibody at 1:50 dilution. (Western blot at 1:500 dilution). Predicted molecular weight: 15-20 kDa (three isoforms).



Western blot analysis of EMC4 expression in human 293 cell lysate. Predicted molecular weight: 15-20 kDa (three isoforms).

Description

EMC4 antibody recognizes ER membrane protein complex subunit 4, a component of the endoplasmic reticulum membrane complex (EMC). The EMC facilitates insertion of transmembrane proteins into the ER and aids in proper folding of multipass proteins. EMC4 plays a role in maintaining ER homeostasis and ensuring the quality control of membrane protein biosynthesis.

Research with EMC4 antibody has shown that loss of EMC function leads to defective protein targeting, ER stress, and activation of the unfolded protein response. EMC4 has also been linked to viral infection processes, where certain viruses hijack EMC components to ensure proper expression of their envelope proteins. These findings highlight EMC4's importance in both normal physiology and infectious disease biology.

Antibodies against EMC4 are validated in assays such as western blot, immunohistochemistry, and immunofluorescence. These reagents provide reliable detection of EMC4, allowing researchers to investigate ER protein insertion pathways and responses to cellular stress.

NSJ Bioreagents provides this EMC4 antibody for research on ER biology, membrane protein folding, and host-pathogen interactions. Alternate names include ER membrane protein complex subunit 4 antibody, EMC4A antibody, and transmembrane protein 93 antibody.

Application Notes

Optimal dilution of the EMC4 antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human EMC4 was used as the immunogen for the EMC4 antibody.

Storage

Store the EMC4 antibody at -20oC.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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