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# Anti-EMC4 Rabbit Monoclonal Antibody

Catalog # ABO16496

## Product Information

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|---|---|
| **Application** | WB, IHC, IP |
| **Primary Accession** | Q5J8M3 |
| **Host** | Rabbit |
| **Isotype** | IgG |
| **Reactivity** | Rat, Human, Mouse |
| **Clonality** | Monoclonal |
| **Format** | Liquid |
| **Description** | Anti-EMC4 Rabbit Monoclonal Antibody . Tested in WB, IHC, IP applications. This antibody reacts with Human, Mouse, Rat. |

## Additional Information

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|---|---|
| **Gene ID** | 51234 |
| **Other Names** | ER membrane protein complex subunit 4, Cell proliferation-inducing gene 17 protein, Transmembrane protein 85, EMC4, TMEM85 |
| **Calculated MW** | 20087 |
| **Application Details** | WB 1:500-1:2000<br>IHC 1:50-1:200<br>IP 1:50 |
| **Source** | Eukaryota |
| **Contents** | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA. |
| **Clone Names** | Clone: 30E32 |
| **Immunogen** | A synthesized peptide derived from human EMC4 |
| **Purification** | Affinity-chromatography |
| **Storage** | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles. |

## Protein Information

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|---|---|
| **Name** | EMC4 |
| **Synonyms** | TMEM85 |
| **Function** | Part of the endoplasmic reticulum membrane protein complex (EMC) that |

enables the energy-independent insertion into endoplasmic reticulum membranes of newly synthesized membrane proteins (PubMed:29242231, PubMed:29809151, PubMed:30415835, PubMed:32439656, PubMed:32459176). Preferentially accommodates proteins with transmembrane domains that are weakly hydrophobic or contain destabilizing features such as charged and aromatic residues (PubMed:29242231, PubMed:29809151, PubMed:30415835). Involved in the cotranslational insertion of multi-pass membrane proteins in which stop-transfer membrane-anchor sequences become ER membrane spanning helices (PubMed:29809151, PubMed:30415835). It is also required for the post-translational insertion of tail-anchored/TA proteins in endoplasmic reticulum membranes (PubMed:29242231, PubMed:29809151). By mediating the proper cotranslational insertion of N-terminal transmembrane domains in an N-exo topology, with translocated N- terminus in the lumen of the ER, controls the topology of multi-pass membrane proteins like the G protein-coupled receptors (PubMed:30415835). By regulating the insertion of various proteins in membranes, it is indirectly involved in many cellular processes (Probable).

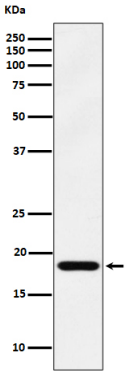
**Cellular Location**

Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=Could also be a single-pass transmembrane protein with cytosolic N-terminus and lumenal C-terminus.

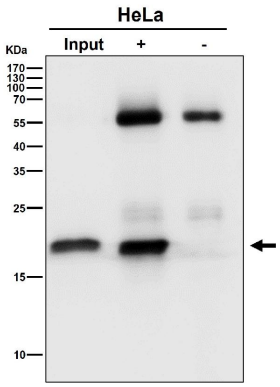
**Tissue Location**

Isoform 1 is expressed in brain and heart. Isoform 2 is expressed in heart.

## Images




Western blot analysis of EMC4 expression in 293 cell lysate.




Immunoprecipitate (IP) analysis using the Antibody at 1:50 dilution. (wb at 1:500 dilution)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.