

Anti-TMBIM4 Antibody

Catalog # AP53325

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q9HC24
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26971

Additional Information

Gene ID	51643
Other Names	GAAP; LFG4; Protein lifeguard 4; Golgi anti-apoptotic protein; Protein S1R; Transmembrane BAX inhibitor motif-containing protein 4; Z-protein
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human TMBIM4. The exact sequence is proprietary.
Dilution	WB~~ 1:500 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

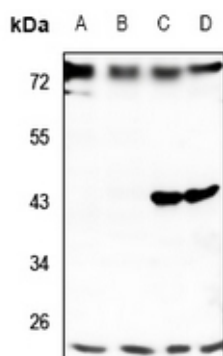
Protein Information

Name	TMBIM4
Synonyms	GAAP, LFG4
Function	Anti-apoptotic protein which can inhibit apoptosis induced by intrinsic and extrinsic apoptotic stimuli. Can modulate both capacitative Ca ²⁺ entry and inositol 1,4,5-trisphosphate (IP3)-mediated Ca ²⁺ release.
Cellular Location	Golgi apparatus membrane; Multi-pass membrane protein

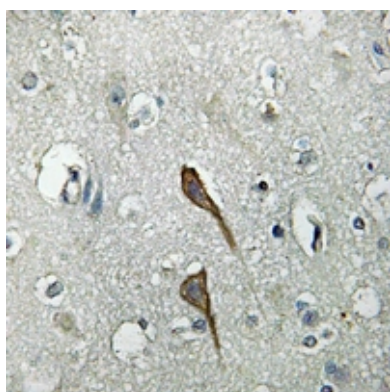
References

Goldberger O.,et al.Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.
Lai C.-H.,et al.Genome Res. 10:703-713(2000).
Hu R.-M.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:9543-9548(2000).

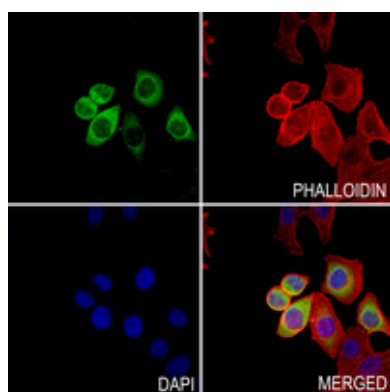
Images



Western blot analysis of TMBIM4 expression in A549 (A), COS7 (B), PC12 (C), CT26 (D) whole cell lysates. (Predicted band size: 26 kDa; Observed band size: 23 kDa)



Immunohistochemical analysis of TMBIM4 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of TMBIM4 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Citations

- [TMBIM4 Deficiency Facilitates NLRP3 Inflammasome Activation-Induced Pyroptosis of Trophoblasts: A Potential Pathogenesis of Preeclampsia](#)