

TMEM66 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10746a

Product Information

Application	WB, FC, E
Primary Accession	Q96BY9
Other Accession	NP_057211.4
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24188
Calculated MW	36975
Antigen Region	33-62

Additional Information

Gene ID	51669
Other Names	Store-operated calcium entry-associated regulatory factor, SARAF, SOCE-associated regulatory factor, HBV X-transactivated gene 3 protein, HBV XAg-transactivated protein 3, Protein FOAP-7, Transmembrane protein 66, SARAF, TMEM66, XTP3
Target/Specificity	This TMEM66 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 33-62 amino acids from the N-terminal region of human TMEM66.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TMEM66 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SARAF
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Synonyms

TMEM66, XTP3

Function

Negative regulator of store-operated Ca^{2+} entry (SOCE) involved in protecting cells from Ca^{2+} overfilling. In response to cytosolic Ca^{2+} elevation after endoplasmic reticulum Ca^{2+} refilling, promotes a slow inactivation of STIM (STIM1 or STIM2)- dependent SOCE activity: possibly act by facilitating the deoligomerization of STIM to efficiently turn off ORAI when the endoplasmic reticulum lumen is filled with the appropriate Ca^{2+} levels, and thus preventing the overload of the cell with excessive Ca^{2+} ions.

Cellular Location

Endoplasmic reticulum membrane; Single-pass type I membrane protein. Note=Translocates to the endoplasmic reticulum-plasma membrane (ER-PM) region in a STIM1-dependent manner following cytosolic Ca^{2+} elevation

Tissue Location

Highly expressed in macrophages. {ECO:0000269 | Ref.2}

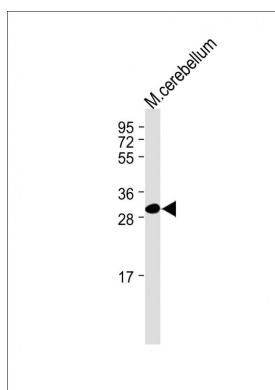
Background

TMEM66 is a multi-pass membrane protein which belongs to the TMEM66 family. The exact function of TMEM66 remains unknown.

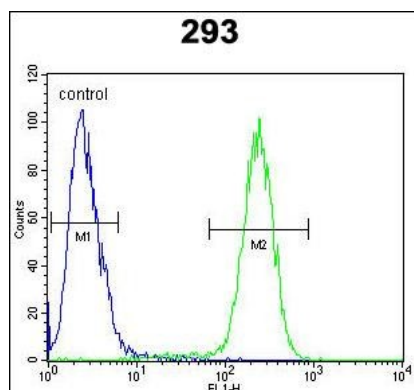
References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Zhang, Z., et al. Protein Sci. 13(10):2819-2824(2004)
Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)

Images



All lanes : Anti-TMEM66 Antibody (N-term) at 1:1000 dilution
Lane 1: Mouse cerebellum lysates/proteins at 20 μg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 32kDa Blocking/Dilution buffer: 5% NFDM/TBST.



TMEM66 Antibody (N-term) (Cat. #AP10746a) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.