For Research Use Only

TIMM44 Monoclonal antibody

Catalog Number:66149-1-lg Featured Product

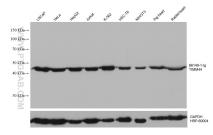


Basic Information	Catalog Number: 66149-1-lg	5		Purification Method: Protein A purification CloneNo.: 4G7D4 Recommended Dilutions: WB 1:5000-1:50000 IHC 1:250-1:1000 IF/ICC 1:200-1:800	
	lgG2c				
		Observed MW: 45 kDa			
Applications	Tested Applications: WB, IHC, IF/ICC, ELISA		Positive Controls: WB : LNCaP cells, HeLa cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, pig heart tissue, rabbit heart tissue		
	Species Specificity: human, mouse, rat, pig, rabbit				
	TE buffer pH 9.0; (*) Alterno	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		IHC : human liver tissue, IF/ICC : HepG2 cells,	
		Translocase of inner mitochondrial membrane 44 (TIMM44), also known as MIMT44 and TIM44, belongs to the Tim44 family. TIMM44 is a mitochondrial protein located at the inner mitochondrial membrane, which is crucial for the integrity and function of mitochondria. In an ATP-dependent manner, TIMM44 anchors mitochondrial heat shock protein 70 to the translocase of the mitochondrial inner membrane 23 (TIMM23) complex. TIMM44 is essential for mitochondrial pre-protein import into the mitochondrial matrix. TIMM44 is vital for the integrity and function of mitochondrial function for mitochondrial matrix. TIMM44 is vital for the integrity and function of mitochondrial functions in endothelial cells, causing mitochondrial protein input arrest, ATP reduction, ROS production, and mitochondrial depolarization, and leading to apoptosis activation (PMID: 36438483, PMID: 37147302, PMID: 38467612). The observed molecular weight of TIMM44 is 45 kDa, indicating a mature form of TIMM44 (PMID: 33891006).			
Background Information	integrity and function of mitochondra protein 70 to the translocase of th mitochondrial pre-protein import mitochondria. TIMM44 silencing of protein input arrest, ATP reduction activation (PMID: 36438483, PMID	l protein located at the ir Idria. In an ATP-depender e mitochondrial inner me into the mitochondrial m isrupted mitochondrial fr I, ROS production, and mi : 37147302, PMID: 38467	ner mitochondr nt manner, TIMM mbrane 23 (TIM atrix. TIMM44 is unctions in endo tochondrial dep 612). The obsen	ial membrane, which is crucial for the 144 anchors mitochondrial heat shock IM23) complex. TIMM44 is essential for s vital for the integrity and function of thelial cells, causing mitochondrial olarization, and leading to apoptosis	
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For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

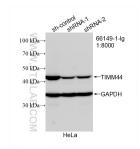
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



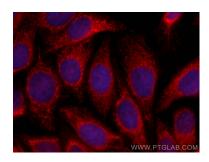


Immunohistochemical analysis of paraffinembedded human liver tissue slide using 66149-1-Ig (TIMM44 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of TIMM44 antibody (66149-1-Ig: 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TIMM44 transfected HeLa cells.

Various lysates were subjected to SDS PAGE followed by western blot with 66149-1-Ig (TIMM44 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TIMM44 antibody (66149-1-Ig, Clone: 4G7D4) at dilution of 1:400 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).