

K0090 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10226b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q8N766
Other Accession	Q8C7X2 , Q5ZL00 , NP_055862.1
Reactivity	Human, Mouse
Predicted	Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB25008
Calculated MW	111759
Antigen Region	866-894

Additional Information

Gene ID	23065
Other Names	ER membrane protein complex subunit 1, EMC1, KIAA0090
Target/Specificity	This K0090 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 866-894 amino acids from the C-terminal region of human K0090.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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	K0090 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

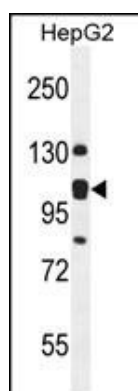
Name	EMC1
Synonyms	KIAA0090

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; Single-pass type I membrane protein

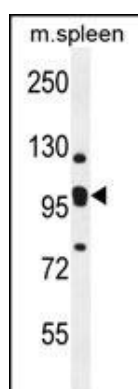
References

Stein, J.L., et al. Neuroimage 53(3):1160-1174(2010)
 Bhatti, P., et al. Radiat. Res. 173(2):214-224(2010)
 Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :

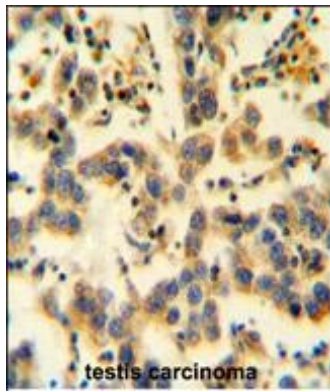
Images



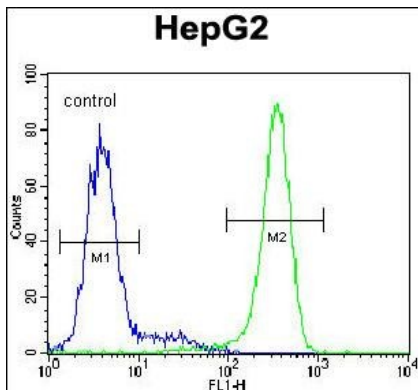
K0090 Antibody (C-term) (Cat. #AP10226b) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the K0090 antibody detected the K0090 protein (arrow).



K0090 Antibody (C-term) (Cat. #AP10226b) western blot analysis in mouse spleen tissue lysates (35ug/lane). This demonstrates the K0090 antibody detected the K0090 protein (arrow).



K0090 Antibody (C-term) (Cat. #AP10226b) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the K0090 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



K0090 Antibody (C-term) (Cat. #AP10226b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- [Selective EMC subunits act as molecular tethers of intracellular organelles exploited during viral entry](#)
- [The ER Membrane Protein Complex Promotes Biogenesis of Dengue and Zika Virus Non-structural Multi-pass Transmembrane Proteins to Support Infection.](#)

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