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K0090 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10226b

Specification

K0090 Antibody (C-term) - 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 Ig**
Calculated MW	**111759**
Antigen Region	**866-894**

K0090 Antibody (C-term) - Additional Information

Gene ID 23065

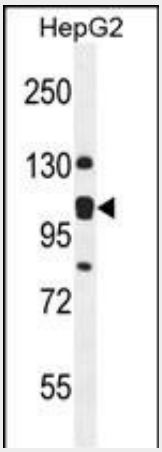
Other Names
ER membrane protein complex subunit 1, EMC1, KIAA0090

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.

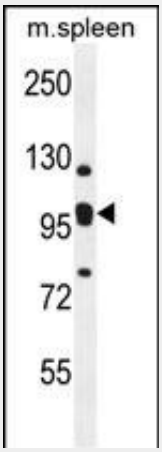
Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

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.



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).

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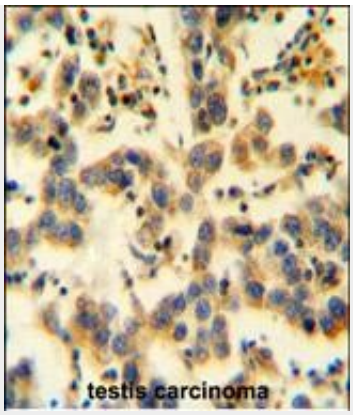
Precautions
K0090 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

K0090 Antibody (C-term) - Protein Information

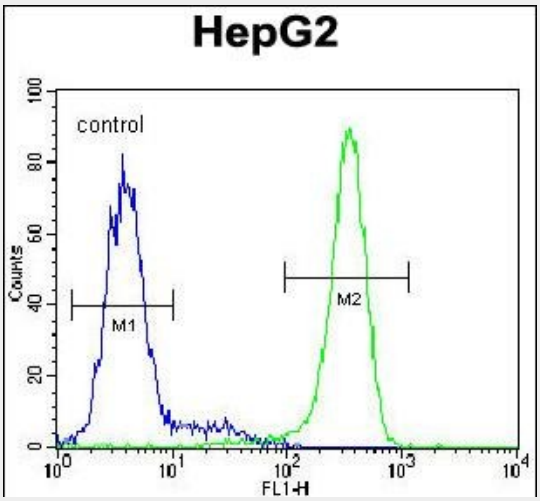
Name EMC1

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:30415835, PubMed:29809151, PubMed:29242231, PubMed:32459176, PubMed:32439656). Preferentially accommodates proteins with transmembrane domains that are weakly hydrophobic or contain destabilizing features such as charged and aromatic residues (PubMed:30415835, PubMed:29809151, PubMed:29242231). Involved in the cotranslational insertion of multi-pass membrane proteins in which stop-transfer membrane-anchor sequences become ER membrane spanning helices (PubMed:30415835, PubMed:29809151). It is also required for the post-translational insertion of tail-anchored/TA proteins in endoplasmic



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.

K0090 Antibody (C-term) - 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) :

reticulum membranes (PubMed:<a href="ht
tp://www.uniprot.org/citations/29809151"
target="_blank">29809151,
PubMed:<a href="http://www.uniprot.org/ci
tations/29242231"
target="_blank">29242231). 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:<a href
="http://www.uniprot.org/citations/3041583
5" target="_blank">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

K0090 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

K0090 Antibody (C-term) - 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.