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Anti-EDEM1 Antibody

Catalog # AP53811

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q92611
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Bovine, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73768

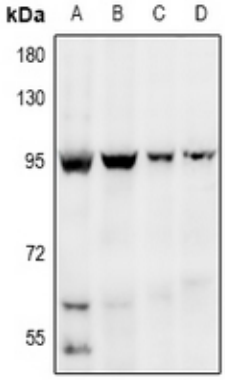
Additional Information

Gene ID	9695
Other Names	EDEM; KIAA0212; ER degradation-enhancing alpha-mannosidase-like protein 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human EDEM1. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 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

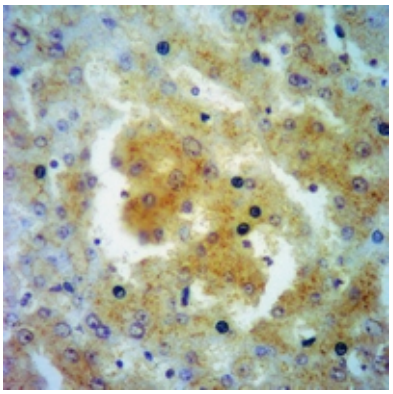
Protein Information

Name	EDEM1
Synonyms	EDEM, KIAA0212
Function	Extracts misfolded glycoproteins, but not glycoproteins undergoing productive folding, from the calnexin cycle. It is directly involved in endoplasmic reticulum-associated degradation (ERAD) and targets misfolded glycoproteins for degradation in an N-glycan- independent manner, probably by forming a complex with SEL1L. It has low mannosidase activity, catalyzing mannose trimming from Man8GlcNAc2 to Man7GlcNAc2.
Cellular Location	Endoplasmic reticulum membrane; Single-pass type II membrane protein

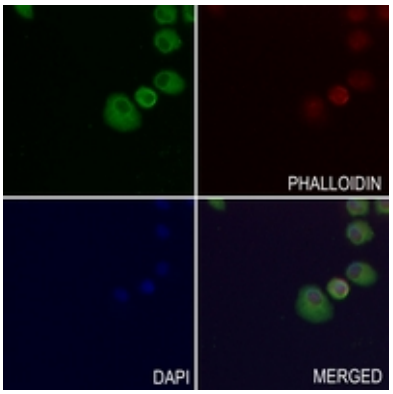
Images



Western blot analysis of EDEM1 expression in LO2 (A), HCT116 (B), HCC827 (C), rat spleen (D) whole cell lysates. (Predicted band size: 73 kD; Observed band size: 95 kD)



Immunohistochemical analysis of EDEM1 staining in human liver cancer 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 EDEM1 staining in SGC7901 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 hidified 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).