

Anti-AGBL4 Antibody

Catalog # AP59885

Product Information

Application	WB, IHC
Primary Accession	Q5VU57
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58230

Additional Information

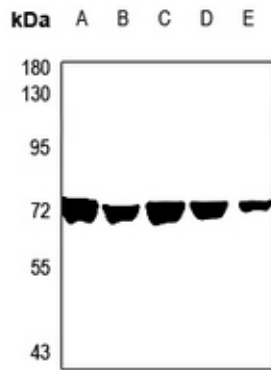
Gene ID	84871
Other Names	CCP6; Cytosolic carboxypeptidase 6; ATP/GTP-binding protein-like 4
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human AGBL4. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IP (1/10 - 1/100) IHC~~1:100~500
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

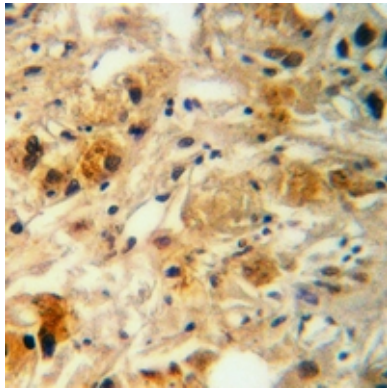
Name	AGBL4 (HGNC:25892)
Synonyms	CCP6
Function	Metalloprotease that mediates protein deglutamylation of tubulin and non-tubulin target proteins. Catalyzes the removal of polyglutamate side chains present on the gamma-carboxyl group of glutamate residues within the C-terminal tail of tubulin protein. Specifically cleaves tubulin long-side-chains, while it is not able to remove the branching point glutamate. Also catalyzes the removal of polyglutamate residues from the carboxy-terminus of non-tubulin proteins such as MYLK. Mediates the deglutamylation of nucleotidyltransferase CGAS, leading to CGAS antiviral defense response activation (By similarity). Involved in KLF4 deglutamylation which promotes KLF4 proteasome-mediated degradation, thereby negatively regulating cell pluripotency maintenance and embryogenesis (PubMed:29593216).
Cellular Location	Cytoplasm, cytosol {ECO:0000250 UniProtKB:Q09LZ8}. Cytoplasm,

cytoskeleton, microtubule organizing center, centrosome, centriole Golgi apparatus. Cytoplasm, cytoskeleton, cilium basal body. Note=Colocalizes with gamma-tubulin in the centrioles at interphase and dividing cells and with glutamylated tubulin in basal bodies of ciliated cells

Images



Western blot analysis of AGL4 expression in CT26 (A), PC12 (B), Hela (C), COS7 (D), PC3 (E) whole cell lysates. (Predicted band size: 58 kD; Observed band size: 72 kD)



Immunohistochemical analysis of AGL4 staining in human colorectal 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.

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