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AGBL5 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11785a

Specification

AGBL5 Antibody (N-term) - Product Information

Application	**IF, IHC-P, WB,E**
Primary Accession	Q8NDL9
Other Accession	Q58CX9, NP_068603.4
Reactivity	**Human**
Predicted	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**97534**
Antigen Region	**99-127**

AGBL5 Antibody (N-term) - Additional Information

Gene ID 60509

Other Names
Cytosolic carboxypeptidase-like protein 5, 3417-, ATP/GTP-binding protein-like 5, AGBL5, CCP5

Target/Specificity
This AGBL5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 99-127 amino acids from the N-terminal region of human AGBL5.

Dilution
IF~~1:10~50
IHC-P~~1:50~100
WB~~1:1000
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
AGBL5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

AGBL5 Antibody (N-term) - Protein Information

Name AGBL5 (HGNC:26147)

Function Metallocarboxypeptidase that mediates 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 alpha- and beta- tubulin. Cleaves alpha- and gamma-linked polyglutamate tubulin side- chain, as well as the branching point glutamate. Also catalyzes the removal of alpha-linked glutamate residues from the carboxy-terminus of alpha-tubulin. Mediates deglutamylation of nucleotidyltransferase CGAS, leading to CGAS antiviral defense response activation.

Cellular Location
Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q09M02}. Nucleus Cytoplasm, cytoskeleton, spindle. Midbody. Note=Mainly cytoplasmic. Slight accumulation in the nucleus is observed (By similarity). Colocalizes with alpha-tubulin in the mitotic spindle and with midbody microtubules in the intercellular bridges formed during cytokinesis {ECO:0000250|UniProtKB:Q09M02, ECO:0000269|PubMed:23085998}

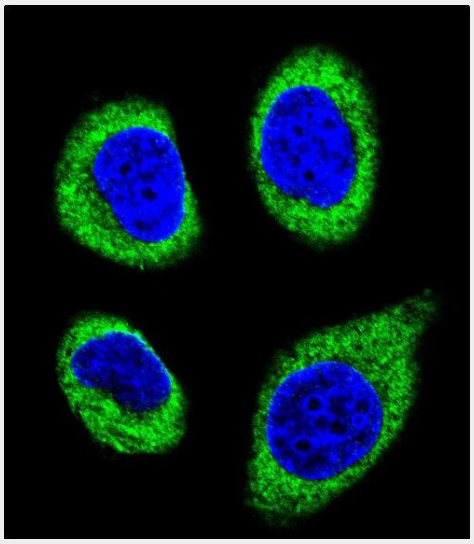
Tissue Location
Expressed in brain.

AGBL5 Antibody (N-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

AGBL5 Antibody (N-term) - Images



Confocal immunofluorescent analysis of AGBL5 Antibody (N-term)(Cat#AP11785a) with U-251MG cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain

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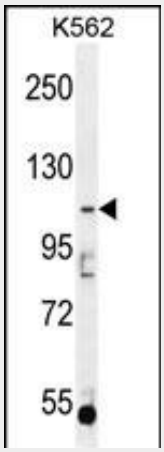
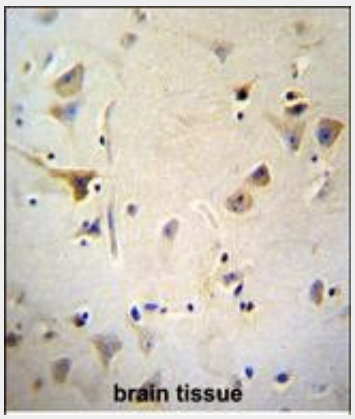
the cell nuclear (blue).



AGBL5 Antibody (N-term) (Cat. #AP11785a) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the AGBL5 antibody detected the AGBL5 protein (arrow).



AGBL5 Antibody (N-term) (Cat. #AP11785a)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of AGBL5 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

AGBL5 Antibody (N-term) - Background

AGBL5 has a function in the processing of cytosolic proteins such as alpha tubulin, which is known to be modified by the removal of a C terminal tyrosine. It is expressed in the brain. There are three named isoforms.

AGBL5 Antibody (N-term) - References

Bailey, S.D., et al. Diabetes Care (2010) In press :
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006)
Simpson, J.C., et al. EMBO Rep. 1(3):287-292(2000)