

AGBL5 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP11785a

Specification

AGBL5 Antibody (N-term) Blocking peptide - Product Information

Primary Accession [Q8NDL9](#)

AGBL5 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 60509

Other Names

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AGBL5 Antibody (N-term) Blocking peptide - 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) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

AGBL5 Antibody (N-term) Blocking peptide - Images

AGBL5 Antibody (N-term) Blocking peptide - Background

This gene encodes a member of the nucleoporin family. The protein is localized to the nuclear rim and is an essential component of the nuclear pore complex (NPC). All molecules entering or leaving the nucleus either diffuse through or are actively transported by the NPC. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized.

AGBL5 Antibody (N-term) Blocking peptide - References

Kim, S.Y., et al. Biochem. Biophys. Res. Commun. 401(1):131-136(2010)Kamatani, Y., et al. Nat. Genet. 42(3):210-215(2010)Mishra, R.K., et al. Nat. Cell Biol. 12(2):164-169(2010)Platani, M., et al. Mol. Biol. Cell 20(24):5260-5275(2009)Whittle, J.R., et al. J. Biol. Chem. 284(41):28442-28452(2009)