

GPAA1 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10722a

Specification

GPAA1 Antibody (N-term) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	O43292
Other Accession	NP_003792.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	67623
Antigen Region	46-73

GPAA1 Antibody (N-term) - Additional Information

Gene ID 8733

Other Names

Glycosylphosphatidylinositol anchor attachment 1 protein, GPI anchor attachment protein 1, GAA1 protein homolog, hGAA1, GPAA1, GAA1

Target/Specificity

This GPAA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 46-73 amino acids from the N-terminal region of human GPAA1.

Dilution

FC~~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

GPAA1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GPAA1 Antibody (N-term) - Protein Information

Name **GPAA1 (HGNC:4446)**

Synonyms GAA1

Function Component of the glycosylphosphatidylinositol-anchor (GPI- anchor) transamidase (GPI-T) complex that catalyzes the formation of the linkage between a proprotein and a GPI-anchor and participates in GPI anchored protein biosynthesis (PubMed:[11483512](#), PubMed:[29100095](#), PubMed:[34576938](#), PubMed:[35165458](#), PubMed:[35551457](#), PubMed:[37684232](#), PubMed:[9468317](#)). Binds GPI-anchor (PubMed:[37684232](#)).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

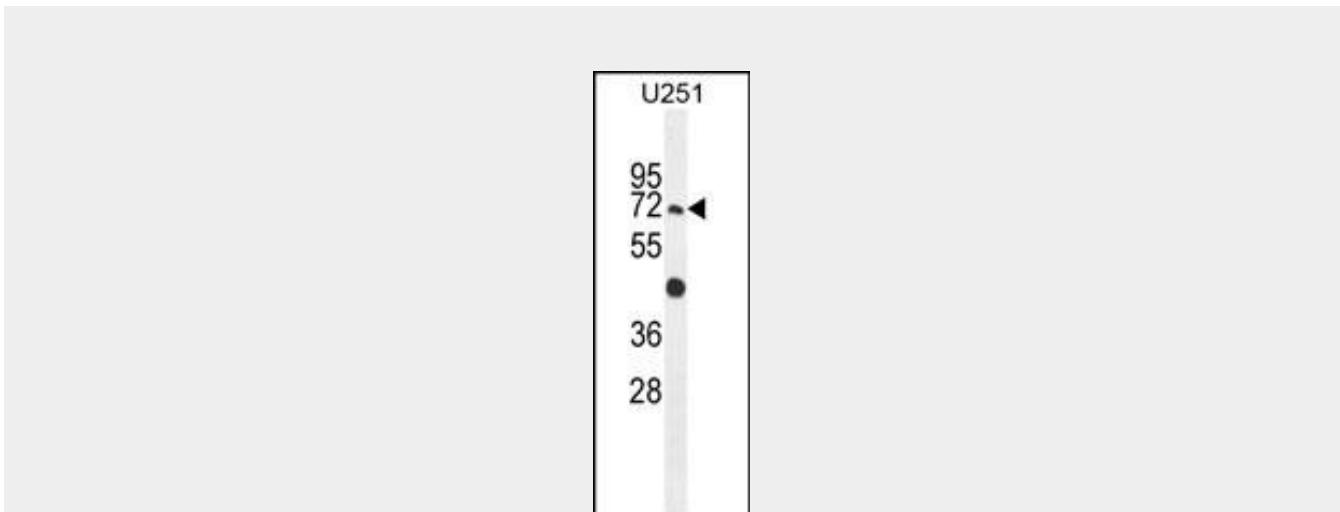
Ubiquitously expressed in fetal and adult tissues. Expressed at higher levels in fetal tissues than adult tissues

GPAA1 Antibody (N-term) - Protocols

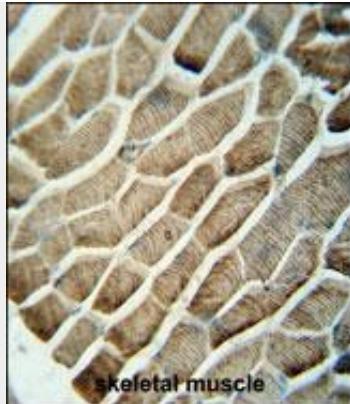
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

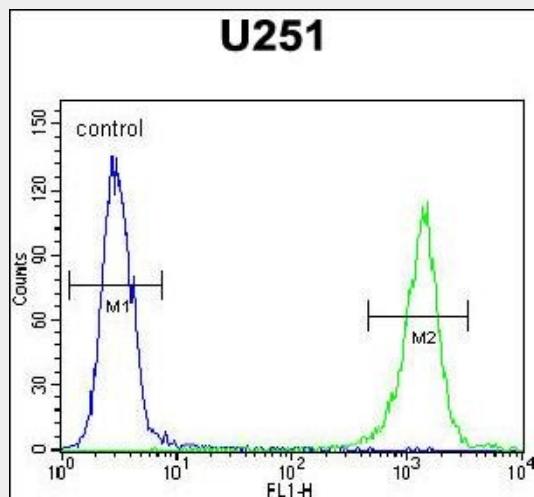
GPAA1 Antibody (N-term) - Images



GPAA1 Antibody (N-term) (Cat. #AP10722a) western blot analysis in U251 cell line lysates (35ug/lane). This demonstrates the GPAA1 antibody detected the GPAA1 protein (arrow).



GPAA1 antibody (N-term) (Cat. #AP10722a) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the GPAA1 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



GPAA1 Antibody (N-term) (Cat. #AP10722a) flow cytometric analysis of U251 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

GPAA1 Antibody (N-term) - Background

Posttranslational glycosylphosphatidylinositol (GPI) anchor attachment serves as a general mechanism for linking proteins to the cell surface membrane. The protein encoded by this gene presumably functions in GPI anchoring at the GPI transfer step. The mRNA transcript is ubiquitously expressed in both fetal and adult tissues. The anchor attachment protein 1 contains an N-terminal signal sequence, 1 cAMP- and cGMP-dependent protein kinase phosphorylation site, 1 leucine zipper pattern, 2 potential N-glycosylation sites, and 8 putative transmembrane domains.

GPAA1 Antibody (N-term) - References

Jiang, W.W., et al. Mol. Cancer 6, 74 (2007) :
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Ho, J.C., et al. Int. J. Cancer 119(6):1330-1337(2006)
Vainauskas, S., et al. J. Biol. Chem. 280(16):16402-16409(2005)
Vainauskas, S., et al. J. Biol. Chem. 279(8):6540-6545(2004)