

Goat Anti-Glycophorin A Antibody

Peptide-affinity purified goat antibody Catalog # AF1486a

Specification

Goat Anti-Glycophorin A Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Concentration Isotype Calculated MW

WB, IHC, E <u>P02724</u> <u>NP_002090</u>, <u>2993</u> Human Goat Polyclonal 100ug/200ul IgG 16430

Goat Anti-Glycophorin A Antibody - Additional Information

Gene ID 2993

Other Names Glycophorin-A, MN sialoglycoprotein, PAS-2, Sialoglycoprotein alpha, CD235a, GYPA, GPA

Dilution WB~~1:1000 IHC~~1:100~500 E~~N/A

Format

0.5 mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions Goat Anti-Glycophorin A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Glycophorin A Antibody - Protein Information

Name GYPA (<u>HGNC:4702</u>)

Function

Component of the ankyrin-1 complex, a multiprotein complex involved in the stability and shape of the erythrocyte membrane (PubMed:http://www.uniprot.org/citations/35835865



target="_blank">35835865). Glycophorin A is the major intrinsic membrane protein of the erythrocyte. The N-terminal glycosylated segment, which lies outside the erythrocyte membrane, has MN blood group receptors. Appears to be important for the function of SLC4A1 and is required for high activity of SLC4A1. May be involved in translocation of SLC4A1 to the plasma membrane.

Cellular Location

Cell membrane; Single-pass type I membrane protein Note=Appears to be colocalized with SLC4A1

Goat Anti-Glycophorin A Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Goat Anti-Glycophorin A Antibody - Images



AF1486a (2 μg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



AF1486a (1 µg/ml) staining of human liver lysate (35 µg protein in RIPA buffer). Primary



incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-Glycophorin A Antibody - Background

Glycophorins A (GYPA) and B (GYPB) are major sialoglycoproteins of the human erythrocyte membrane which bear the antigenic determinants for the MN and Ss blood groups. In addition to the M or N and S or s antigens that commonly occur in all populations, about 40 related variant phenotypes have been identified. These variants include all the variants of the Miltenberger complex and several isoforms of Sta, as well as Dantu, Sat, He, Mg, and deletion variants Ena, S-s-U- and Mk. Most of the variants are the result of gene recombinations between GYPA and GYPB.

Goat Anti-Glycophorin A Antibody - References

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Unfolding a transmembrane helix dimer: A FRET study in mixed micelles. Anbazhagan V, et al. Arch Biochem Biophys, 2010 Mar 15. PMID 20074546.