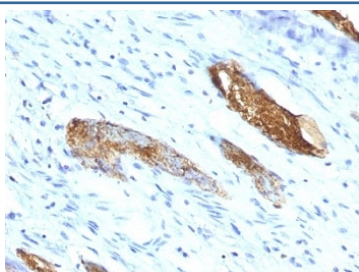


Blood Group Antigen A Antibody / ABO [clone 33C13] (V2547)

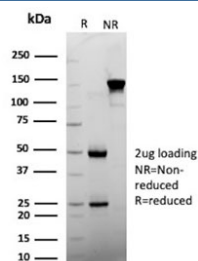
Catalog No.	Formulation	Size
V2547-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V2547-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V2547SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-2 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	33C13
Purity	Protein G affinity chromatography
UniProt	P16442
Localization	Cell surface
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Blood Group Antigen A antibody is available for research use only.



IHC: Formalin-fixed, paraffin-embedded human colon carcinoma stained with Blood Group Antigen A antibody (33C13). Staining of formalin-fixed tissues requires boiling tissue sections in pH6 10mM citrate buffer for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free Blood Group Antigen A antibody (clone 33C13) as confirmation of integrity and purity.

Description

This mAb preferably reacts with determinants of chain A and H type 3 (Gal1-3GalNAc-R) and 4 (Gal1-3GalNAc-R), but not with type 1 and 2 chain structures. It is not reactive with immuno-dominant A trisaccharide. This mAb is applicable for tissue staining in tumor patients with blood groups A and AB. It shows a highly heterogeneous reactivity in human colon tumor tissue and adjacent mucosa. Blood-group antigens are generally defined as molecules formed by sequential addition of saccharides to the carbohydrate side chains of lipids and proteins detected on erythrocytes and certain epithelial cells. The A, B and H antigens are reported to undergo modulation during malignant cellular transformation. Blood group related antigens represent a group of carbohydrate determinants carried on both glycolipids and glycoproteins. They are usually mucin-type, and are detected on erythrocytes, certain epithelial cells, and in secretions of certain individuals. Sixteen genetically and biosynthetically distinct but inter-related specificities belong to this group of antigens, including A, B, H, Lewis A, Lewis B, Lewis X, Lewis Y, and precursor type 1 chain antigens.

Application Notes

Optimal dilution of the Blood Group Antigen A antibody should be determined by the researcher.

Immunogen

Mucin isolated from an ovarian cyst fluid was used as the immunogen for the Blood Group Antigen A antibody.

Storage

Store the Blood Group Antigen A antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).