

ABO Antibody / Blood Group Antigen H Type 2 [clone A46-B/B10] (V8784)

Catalog No.	Formulation	Size
V8784-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V8784-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V8784SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

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Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgM, kappa
Clone Name	A46-B/B10
Purity	Protein A/G affinity
UniProt	P16442
Localization	Cell surface, cytoplasmic
Applications	Immunofluorescence : 2-4ug/ml
Limitations	This ABO antibody is available for research use only.



Description

Recognizes the blood group H type 2 antigens, trisaccharide Fuc1 of human origin. The specificity of this MAb has been identified by haemagglutination tests, immunohistochemistry, binding inhibition studies, and absorption experiments

performed with synthetic oligosaccharides. The antibody is virtually nonreactive with H type 1 antigen or with closely related type 2 structures (e.g., Y antigen). A46-B/B10 strongly agglutinates human erythrocytes according to the amount of H substance expressed and can, therefore, easily discriminate between blood groups A1 and A2 as well as A1B and A2B (A1 and A1B are not or only weakly agglutinated). In immunohistochemistry, this antibody seems to provide a highly specific reagent for a restricted number of carcinomas and epithelial lineages in tissue sections and in vitro. This was tested on 753 blood samples. It strongly agglutinates human erythrocytes of blood groups 0, A2 and A2B, but not or only very weakly A1 and A1B. This MAb promises to be useful in the determination of A and AB subgroups in blood group serology. This MAb might also be able to define B subgroups. Among 263 B blood samples, 45 (17.1%) were negative or only weakly positive with A46-B/B10.

Application Notes

Optimal dilution of the ABO antibody should be determined by the researcher.

Immunogen

Human breast cancer MCF-7 cells were used as the immunogen for the ABO antibody.

Storage

Aliquot the ABO antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.