

Blood Group Antigen A (CD173) Antibody

Mouse Monoclonal Antibody [Clone HE-14]

Catalog No	Format	Size
28-MSM4-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
28-MSM4-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
28-MSM4-P2	Purified Ab with BSA and Azide at 200ug/ml	200 ug

Applications	Tested Dillution	Note
Immunofluorescence (IF)	1-3ug/ml	

Product Details	
Clone	HE-14
Gene Name	ABO
Immunogen	Mixture of erythrocytes of blood group A1and glycoprotein fraction isolated from the saliva of secretors with blood group A
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgM / Kappa
Mol. Weight of Antigen	Multiple
Cellular Localization	Golgi apparatus, Golgi stack membrane, Secreted
Species Reactivity	Human
Positive Control	KG1 cells or human colorectal carcinoma tissues.

**Optimal dilution for a specific application should be determined.*

Product Images for Blood Group Antigen A (CD173) Antibody

Specificity & Comments

This antibody recognizes human blood group A (monofucosyl and difucosyl A antigens with chain types 1, 2, 3, 4, 5, 6) and Forssmann antigen. It is also reactive with the immuno-dominant A trisaccharide. Blood group antigen expression in human colon cancer was studied by means of two monoclonal antibodies of broad anti-A (HE-14) and anti-type 3 and type 4 chain-based A and H (HE-10) specificity. These antigens were proved to re-appear in tumors of the distal colon, the HE-10 antibody reacting more frequently (9 out of 12 samples) than HE-14 (5 out of 12 samples) and frequently with supra-nuclear staining of the cytoplasm probably in those places of the Golgi apparatus where carbohydrate antigens are synthesized. This staining pattern is characteristic of HE-10 in normal colonic mucosa as well. With HE-14, staining was often absent in less differentiated tumors, while HE-10 did react in such tumors. In some cases, these two antibodies gave different staining patterns in parallel sections from the same tissue sample, primarily at the cellular level. Three out of 12 cases showed blood group antigen expression in the mucosa of the distal colon adjacent to the tumor only when HE-10 Ab was used.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular