

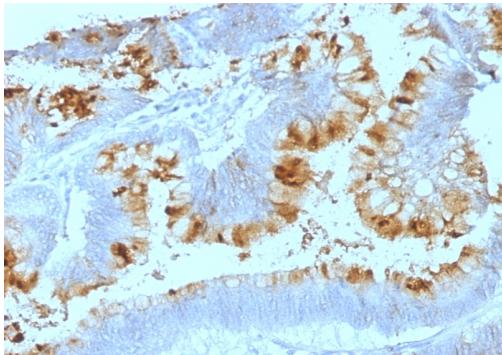
## Lewis A (Blood Group Antigen)

Mouse Monoclonal Antibody [Clone SPM522]

Catalog No	Format	Size	Price (USD)
MSM1XX-311-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug	219.00
MSM1XX-311-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug	499.00
MSM1XX-311-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug	499.00

Human Entrez Gene ID	Not Applicable
Human SwissProt	Not Applicable
Human Unigene	Not Applicable
Human Gene Symbol	Not Applicable
Human Chromosome Location	Not Applicable
Synonyms	Lewis A antigen

Immunogen	Mucins isolated from ovarian cyst fluid
Host / Ig Isotype	Mouse / IgG1, kappa
Mol. Weight of Antigen	Multiple
Cellular Localization	Cell membrane, cytoplasmic and extracellular
Species Reactivity	Human. Mouse.
Positive Control	Colon tissue.



Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Lewis A Monoclonal Antibody (SPM522).

### Specificity & Comments

Recognizes a carbohydrate determinant of Gal 1-3(Fuc 1-4) GlcNAc which is blood group antigen Lewis A. It is present primarily on epithelial cells such as colon and kidneys. In the tumors and dedifferentiated tissues, decrease of Lewis A antigen was observed. Lewis A (type 1 chain) is expressed in colonic epithelial cells and may be useful for detection of gastrointestinal tumors, pancreatic cancer, and colorectal tumors. 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.

### Known Applications & Suggested Dilutions

Flow Cytometry (1-2ug/million cells)

Immunofluorescence (1-2ug/ml)

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)

Optimal dilution for a specific application should be determined.

### Key References

1. Cancer Epidemiology, Biomarkers Prevention 1, 199-205 (1992).
2. Gastroenterology, 102 (2), 424-430 (1992).
3. Blood transfusion and immunohaematology, Ph. Rouger, D Anstee and Ch. Salmon (Eds). Arnette, France 30 (5): 353-720 (1987).

### 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.

### Limitations

This antibody is available for research use only and is not approved for use in diagnosis.

### Warranty

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.