

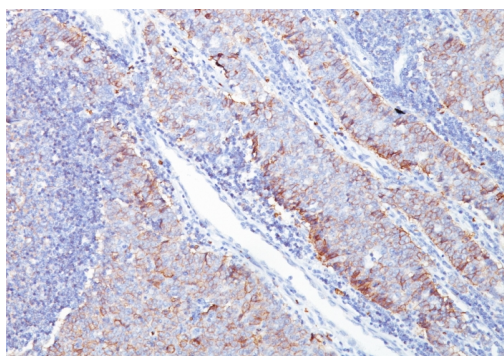
## GLUT-1 (Tumor Progression and Mesothelioma Marker)

Mouse Monoclonal Antibody [Clone GLUT1/2476]

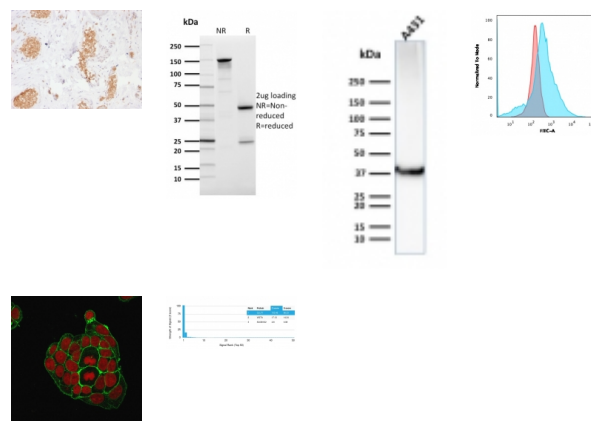
Catalog No	Format	Size	Price (USD)
6513-MSM5-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug	219.00
6513-MSM5-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug	499.00
6513-MSM5-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug	499.00

Human Entrez Gene ID	6513
Human SwissProt	P11166
Human Unigene	473721
Human Gene Symbol	SLC2A1
Human Chromosome Location	1p34.2
Synonyms	Erythrocyte/hepatoma glucose transporter; Glucose transporter type-1; GLUT1; GLUT1DS; GLUTB; GT1; GTG1; Gtg3; HepG2 glucose transporter; PED; RATGTG1; Solute carrier family 2; Solute carrier family 2, facilitated glucose transporter member 1 (SLC2A1)

Immunogen	Recombinant fragment of human GLUT1 protein (around aa 203-305) (exact sequence is proprietary)
Host / Ig Isotype	Mouse / IgG2b, kappa
Mol. Weight of Antigen	55kDa
Cellular Localization	Cell Surface
Species Reactivity	Human.
Positive Control	K562, A431, MDA-MB-231 cells. Erythrocytes. Mesothelioma or breast, colon and ovarian carcinoma.



Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with GLUT-1 Mouse Monoclonal Antibody (GLUT1/2476).



### Specificity & Comments

Recognizes a protein of 55kDa, which is identified as GLUT-1. Glucose transporters are integral membrane glycoproteins involved in transporting glucose into most cells. There are many types of glucose transport carrier proteins, designated as Glut-1 to Glut-12. Glut-1 is a major glucose transporter in the mammalian blood-brain barrier. It is expressed in high density on the membranes of human erythrocytes and the brain capillaries that comprise the blood-brain barrier. Glut-1 is expressed at variable levels in many human tissues. Overexpression of Glut-1 has been linked to tumor progression or poor survival of patients with carcinomas of the colon, breast, cervical, lung, bladder and mesothelioma. Glut-1 is a sensitive and specific marker for the differentiation of malignant mesothelioma (positive) from reactive mesothelium (negative).

### Known Applications & Suggested Dilutions

ELISA (For coating use Ab at 1-2ug/ml order Ab without BSA)  
Flow Cytometry (1-2ug/million cells)  
Immunofluorescence (1-2ug/ml)  
Western Blot (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

### 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.