GLUT-1 (SPM498)
Mouse Monoclonal Antibody
Cat. #MS-10637-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)
Cat. #MS-10637-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

Description: Glucose is fundamental to the metabolism in mammalian cells. Several glucose transporter protein (Glut) isoforms have been identified and shown to function in response to insulin and IGF-1 induced signaling. GLUT-1 is detectable in many human tissues including those of the colon, lung, stomach, esophagus, and breast. GLUT-1 immunoreactivity in some cancers, including trans carcinoma of the urinary bladder, has been associated with aggressive behavior.

Mol. Wt. of Antigen: 55kDa
Epitope: C-terminal
Ig Isotype: IgG2a/κ
Species Reactivity: Human and Rat. Others not tested.
Immunogen: A synthetic peptide derived from C-terminal of human GLUT-1

Clone Designation: SPM498

Applications and Suggested Dilutions:
- Immunohistology (Formalin/paraffin) (Ab at 1:200 for 30 min with LV’s UltraVision)
  * [Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: Esophageus carcinoma

Cellular Localization: Cell membrane

Storage and Stability: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

Supplied As: Purified antibody fraction from mouse ascite. Prepared in 10mM PBS, pH 7.6, with 0.2% BSA and 15mM sodium azide.

or

Prediluted antibody which is ready-to-use for immunohistochemical staining.

Limitations and Warranty: Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data: This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

FFPE human esophagus carcinoma stained with anti-Glut-1 (cat.# MS-10637-P) using peroxidase-conjugate and AEC chromogen. Note membrane staining.

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