

GLUT-1**Rabbit Polyclonal Antibody****Cat. #RB-9052-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml)** (Purified Ab with BSA and Azide)**Cat. #RB-9052-R7 (7.0ml)** (Ready-to-Use for Immunohistochemistry)

Please note this data sheet has been changed effective December 14, 2011

Description: Glucose is fundamental to the metabolism of 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 transitional cell carcinoma of the urinary bladder, has been associated with aggressive behavior.

Comments: This antibody is excellent for staining of formalin-fixed, paraffin-embedded tissues.

Mol. Wt. of Antigen: 55kDa, 45kDa depending on the extent of glycosylation.

Epitope: c-terminal

Species Reactivity: Human and Rat. Others not tested.

Immunogen:

A synthetic peptide derived from C-terminal of human GLUT-1

Applications and Suggested Dilutions:

- Immunofluorescence
 - Western Blotting (2-4µg/ml for 2hrs)
 - Immunohistology (Formalin/paraffin)
- (1:200 for for 20 minutes at RT using the LP Detection System, for 30 minutes at RT using the UltraVision or UltraVision ONE Detection Systems
- [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.]
 - **Staining tips:** If the staining is too light, use lower dilution or longer time.
If the staining is too strong, use higher dilution or shorter time.

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

Positive Control: Rat brain lysate. Breast carcinoma, squamous cell carcinoma, non-small-cell lung carcinoma, esophageal carcinoma

Cellular Localization: Membrane and focal cytoplasmic

Storage and Stability:

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

Supplied As:

Antibody fraction purified from rabbit anti-serum. Prepared in 10mM PBS, pH 7.6, with 0.2% BSA and 15mM sodium azide.

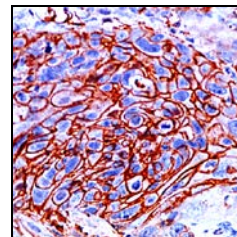
or
Prediluted antibody which is ready-to-use for immunohistochemistry.

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. Lab Vision 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.



Human breast ca. stained with anti-GLUT-1, Cat# RB-9052-P

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