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# GLUT-1 (Clone EP141)

## Rabbit Monoclonal Antibody

**Specificity:** Human. Others-not tested

**Immunogen:** A synthetic peptide corresponding to residues of human Glut-1 protein

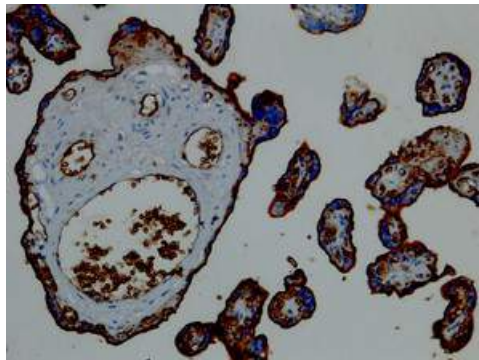
**Ig Class:** Rabbit IgG

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

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:50-100. *Positive Control:* Placenta. *Cellular Localization:* Membrane. *Intended Use:* In vitro diagnosis (IVD).

**Description:** 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, also known as SCL2A1, 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).

**Supplied As:** Purified antibody fraction from rabbit anti-serum with 0.2% BSA and 15mM sodium azide.



*Formalin-fixed, paraffin-embedded human placenta stained with anti-Glut-1 using peroxidase-conjugate and DAB chromogen. Note membranous staining of villous trophoblasts*

**Cat. #Z2264 (1.0 ml)**

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