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# Product datasheet for BP508

## GLUT4 (SLC2A4) (C-term) Rabbit Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | IHC, IP, WB |
| **Recommended Dilution:** | **Western blot.**<br>**Immunoprecipitation.**<br>**Immunohistochemistry on Frozen Sections.**<br>**Immunohistochemistry on Paraffin Sections:** 10-20 µg/ml. |
| **Reactivity:** | Human, Monkey, Mouse, Porcine, Rat |
| **Host:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Immunogen:** | A 12 amino acid peptide corresponding to the carboxyl terminus of the insulin regulatable glucose transporter conjugated to Keyhole Limpet Hemocyanin |
| **Specificity:** | This antibody recognizes Glucose Transporter 4 (GLUT4).<br>It **does not** react with HEP G2 type Glucose Transporter in Human erythrocytes, Rat brain or other tissues that do not exhibit sensitivity to Insulin. |
| **Formulation:** | PBS<br>State: Purified<br>State: Liquid purified IgG fraction<br>Preservative: 0.09% Sodium Azide |
| **Concentration:** | lot specific |
| **Purification:** | Affinity Chromatography |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: one year from despatch. |
| **Gene Name:** | solute carrier family 2 member 4 |
| **Database Link:** | Entrez Gene 6517 Human<br>P14672 |

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**Background:** GLUT4 is the insulin-regulated glucose transporter found in adipose tissue and striated muscle, responsible for glucose disposal. The stimulation of glucose uptake by insulin requires translocation of the GLUT4 glucose transporter from intracellular storage sites to the cell surface. Activation of phosphatidylinositol-3-OH kinase (PI3K) is required for this trafficking event, but it is not sufficient to produce GLUT4 translocation. Human insulin resistance involves a defect in GLUT4 traffic and targeting leading to accumulation in a dense membrane compartment from which insulin is unable to recruit GLUT4 to the cell surface.

**Synonyms:** GLUT-4, Glucose transporter 4, Glucose transporter type 4 insulin-responsive

## Product images:

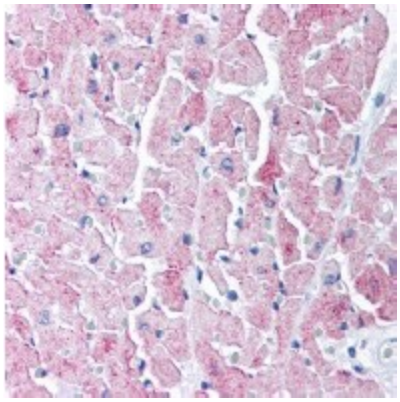

Figure 1. GLUT4 antibody staining of Paraffin Embedded Human Heart, demonstrating labelling of cardiac myocytes.