### Product Details

**Description:** MOUSE ANTI GLUCOSE TRANSPORTER 4

**Specificity:** GLUCOSE TRANSPORTER 4

**Other names:** GLUT4

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** 1F8

**Isotype:** IgG1

**Quantity:** 0.1 mg

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Paraffin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Blotting</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunofluorescence</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

**Target Species**

Rat

**Species Cross Reactivity**

React with: Mouse, Monkey, Rabbit, Human, Pig

Does not react with: Dog

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

**Product Form**

Purified IgG - liquid
<table>
<thead>
<tr>
<th>Preparation</th>
<th>Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buffer Solution</td>
<td>Phosphate buffered saline</td>
</tr>
<tr>
<td>Preservative Stabilisers</td>
<td>0.09% Sodium Azide (NaN₃)</td>
</tr>
<tr>
<td>Carrier Free</td>
<td>Yes</td>
</tr>
<tr>
<td>Approx. Protein Concentrations</td>
<td>IgG concentration 1.0mg/ml</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Partially purified vesicles containing insulin-responsive glucose transporter 4.</td>
</tr>
</tbody>
</table>

**External Database Links**

- UniProt:  
  - P19357 Related reagents  
  - P14672 Related reagents  
  - P14142 Related reagents

- Entrez Gene:  
  - 25139 Slc2a4 Related reagents  
  - 6517 SLC2A4 Related reagents  
  - 20528 Slc2a4 Related reagents

**Synonyms**

- Glut4, Glut-4, GLUT4

**RRID**

- AB_11152941

**Specificity**

**Mouse anti glucose transporter 4 antibody, clone 1F8** originally raised against rat intracellular low density microsomes (James et al. 1987) recognizes an epitope in the cytoplasmic region of Glucose transporter 4 (GLUT4), an insulin-regulated facilitative glucose transporter found in adipose tissue and striated muscle. When stimulated by insulin, GLUT4 translocates from intracellular stores to the cell surface, facilitating passive diffusion of circulating glucose into muscle and fat cells. GLUT4 is also stimulated to locate to the cell surface by muscle contraction, particularly in cardiac muscle (James et al. 1988).

Mouse anti glucose transporter 4 antibody, clone 1F8 has been used successfully to demonstrate the localization of GLUT4 to the basolateral side of ductal structures in the rat submandibular salivary gland in formalin fixed, paraffin embedded material (Cetik et al. 2014).

**References**


Further Reading


Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee

12 months from date of despatch

Health And Safety Information

10040
Related Products

**Recommended Secondary Antibodies**

Goat Anti Mouse IgG (STAR77...)
Rabbit Anti Mouse IgG (STAR12...)
Goat Anti Mouse IgG (STAR70...)
Goat Anti Mouse IgG IgA IgM (STAR87...)
Goat Anti Mouse IgG (STAR76...)
Goat Anti Mouse IgG (H/L) (STAR117...)
Goat Anti Mouse IgG (Fc) (STAR120...)
Rabbit Anti Mouse IgG (STAR13...)
Rabbit Anti Mouse IgG (STAR9...)

**Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL (MCA1209)