Datasheet: 4670-1725

**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:** 50 µg

**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.

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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tr>
<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin (1)</td>
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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.

(1) **This product requires enzyme mediated antigen retrieval prior to staining of paraffin sections. Proteinase K is recomended for this purpose.**

**Target Species**

Rat

**Species Cross Reactivity**

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

Does not react with: Dog

**N.B.** Antibody reactivity and working conditions may vary between species.

**Product Form**

Purified IgG - liquid

**Preparation**

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide (NaN₃)

**Carrier Free**

Yes
### Approx. Protein Concentrations
IgG concentration 1 mg/ml

### Immunogen
Partially purified vesicles containing insulin-responsive glucose transporter 4.

### 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

### 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
Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life
18 months from date of despatch.

Health And Safety Information

Regulatory
For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...) RPE
Rabbit Anti Mouse IgG (STAR8...) DyLight®800
Rabbit Anti Mouse IgG (STAR13...) HRP
Goat Anti Mouse IgG (STAR76...) RPE
Goat Anti Mouse IgG (STAR70...) FITC
Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP
Rabbit Anti Mouse IgG (STAR9...) FITC
Human Anti Mouse IgG1 (HCA036...) HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA1209)