Datasheet: 4670-1725GA

**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

### Product Details

**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>
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<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</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.

**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**

IgG concentration 1.0mg/ml
Concentrations
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
11. Allard, M.F. et al. (2000) Hypertrophied rat hearts are less responsive to the metabolic and


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)