

Anti-Conjugated Glutamate, monoclonal

Product Information Sheet
1031GE



SUMMARY

shipped at -20 °C; store at -20 °C

For research use only.

Not for use in diagnostic or therapeutic procedures.

Description

Monoclonal antibody was obtained after BALB/c mouse immunization with the conjugates: Glutamate-Glutaraldehyde-carrier proteins and hybridization of spleen cells with the myeloma cell line SP2/O/Ag14. Ascite production was performed in BALB/c mice.

Subclass : IgM, Kappa

Purification

The ascitic fluid was purified by ammonium sulfate precipitation and gel filtration.

Contents: The antibody is supplied in a unit size of 50 µl in PBS with 50% glycerol.

Storage and Handling

When this product is stored undiluted at -20 °C or lower, it is stable for at least 2 years. Multiple freezing and thawing is only possible up to 5 times. The antibodies can be prediluted 10x in PBS containing 0.1% merthiolate or a mixture of PBS/glycerol (1:1, vol./vol.). At 4 °C these solutions are stable for 2 months.

Specificity

Using a conjugate Glutamate-Glutaraldehyde-Protein, antibody specificity was determined in an ELISA test by competition experiments with the following compounds:

Compound	Cross-reactivity ratio (a)
Glutamate-G-BSA	1
Glutamate=G=BSA (b)	1 : 10
Aspartate-G-BSA	1 : 100,000
GABA-G-BSA	1 : 100,000
Glutamate	1 : 100,000

(a) : Glutamate-G-BSA concentration/unconjugated or conjugated aminoacid concentration at half displacement ;

(b) : Non-reduced conjugate ;

G = Glutaraldehyde, BSA = Bovine Serum Albumine.

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Recommended dilution

The antibody was tested using the free floating PAP technique on rat hippocampus. The anti-conjugated glutamate antibody gave a good staining between a 1:5,000-1:20,000 dilution on these areas.

Reference

CHAGNAUD J.L., CAMPISTRON G. and GEFFARD M. Monoclonal antibody directed against glutaraldehyde conjugated glutamate and immunocytochemical applications in the rat brain. Brain Res. 481 (1989) 175-181.

Order Information, Shipping and Storage

Order#	Product	Quantity
1031GE	Anti-Conjugated Glutamate, monoclonal	50 µl
shipped on blue ice; store at -20 °C		

Contact and Support

MoBiTec GmbH ● Lotzestr. 22a ● D-37083 Goettingen ● Germany

Customer Service – General inquiries & orders

phone: +49 (0)551 707 22 0
fax: +49 (0)551 707 22 22
e-mail: order@mobitec.com

Technical Service – Product information

phone: +49 (0)551 707 22 70
fax: +49 (0)551 707 22 77
e-mail: info@mobitec.com

MoBiTec in your area: Find your local distributor at www.mobitec.com