

# Anti-Conjugated Dopamine, monoclonal

Product Information Sheet  
# 1029GE



## SUMMARY

shipped on blue ice; 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: Dopamine-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:** IgG 1, 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 Dopamine-Glutaraldehyde-Protein, antibody specificity was determined in an ELISA test by competition experiments with the following compounds:

Compound	Cross-reactivity ratio <sup>(a)</sup>
Dopamine-G-BSA	1
L-DOPA-G-BSA	1: 10,000
Tyrosine-G-BSA	1: 36,000
Tyramine-G-BSA	1: > 100,000
Noradrenaline-G-BSA	1: > 100,000
Octopamine-G-BSA	1: > 100,000
Adrenaline-G-BSA	1: > 100,000
L-DOPA=G=BSA <sup>(b)</sup>	1: > 100,000
Dopamine	1: > 100,000

(a): Dopamine-G-BSA concentration/unconjugated or conjugated catecholamine 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 dopaminergic areas. The anti-conjugated Dopamine antibody gave a good staining between a 1:5,000-1:20,000 dilution in these areas.

## References

CHAGNAUD J.L., MONS N., TUFFET S., GRANDIER-VAZEILLES X. and GEFFARD M. Monoclonal antibodies against glutaraldehyde-conjugated dopamine. J. Neurochem., (1987) 49, 487-494 .

DECAVEL C., LESCAUDRON L., MONS N. and CALAS A. First visualization of dopaminergic neurons with a monoclonal antibody to dopamine : a light and electron microscopic study. J. Histochem. Cytochem., (1987) 35, 1245-1252.

SCHÜRMAN F.W., ELEKES K. and GEFFARD M. Dopamine-like immunoreactivity in the bee brain. Cell & Tissue Res., (1989), 256, 399-410.

GOLDMAN-RAKIC P.S., LERANTH C., WILLIAMS S.M., MONS N. and GEFFARD M. Dopamine synaptic complex with pyramidal neurons in primate cerebral cortex. Proc. Nat. Acad. Sci. USA, (1989), 86, 9015-9019.

## Order Information, Shipping and Storage

Order#	Product	Quantity
1029GE	Anti-Conjugated Dopamine, monoclonal	50 µl
shipped on blue ice; store at -20 °C		

## Contact and Support

MoBiTec GmbH ● Lotzestrasse 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

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