Qty: 100µg/400 µL

Rabbit anti-Pan-Endophilin

Catalog No. 36-3400
Lot No.

Rabbit anti-Pan-Endophilin

FORM
This polyclonal antibody is supplied as a 400 µL aliquot at a concentration of 0.25 mg/mL in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. This antibody is epitope-affinity purified from rabbit antiserum.

PAD: ZMD.297

IMMUNOGEN
Synthetic peptide derived from the internal region conserved in human, mouse and rat endophilin 1, 2 and 3.

SPECIFICITY
This antibody reacts with mouse endophilin 1, 2 and 3 proteins. Based on 100% sequence homology, it is expected to cross-react with human and rat samples. On Western blots of mouse brain homogenates, two bands at ~40 kDa (endophilin 1, 2) and one band at ~45 kDa (endophilin 3) are identified. A faint band at ~52-55 kDa is also observed, which may represent an isomer.

REACTIVITY
Reactivity has been confirmed with mouse brain lysates.

Sample	Western Blotting	ELISA
Mouse	+++	ND
Rat	ND	ND
Human	ND	ND
Immunogen	N/A	+++

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE
Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.1-1µg/mL
Western Blotting: 1-3 µg/mL

STORAGE
Store at 2-8°C for up to one month. Store at –20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

BACKGROUND

Endophilin-3 is a 40 kDa protein that shows more ubiquitous expression than its counterparts endophilin-1 (40 kDa), which is preponderant in the brain, and endophilin-2 (45 kDa) that is found in the brain as well as the testis.[1, 2] Endophilins (1, 2 and 3) have a domain structure similar to amphiphysin with a conserved amino-terminal domain and a carboxy-terminal SH3 domain. Endophilins have been proposed to play roles in membrane trafficking reactions through interactions with endocytic proteins via physical or chemical modifications of membrane bilayers, particularly in presynaptic vesicle trafficking at nerve terminals.[3]

REFERENCES

1. Giachino C, et al. *Genomics* 41(3): 427-434, 1997.
2. Ringstad N, et al. *Proc Natl Acad Sci* 94: 8569-8574, 1997.
3. Ringstad N, et al. *J Biol Chem* 276(44): 40424-40430, 2001.

RELATED PRODUCTS

Product	***Clone/PAD****	***Cat. No.***
Rabbit anti-Endophilin 1		36-3000
Rabbit anti-Endophilin 2		36-3300
Rabbit anti-Endophilin 3		36-3200
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

*PAD: Polyclonal Antibody Designation

Conjugate	**ZyMAX™ Goat x Rabbit IgG (H+L)**	**ZyMAX™ Goat x Mouse IgG (H+L)**
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

For Research Use Only

ME072503