



Qty: 100 µg/200 µL

Mouse anti-Ankyrin B

Catalog No. 33-3700

Lot No.

Mouse anti-Ankyrin B

FORM

This monoclonal antibody is supplied as a 200 µL aliquot at a concentration of 0.5 mg/mL in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

CLONE: 2.20

ISOTYPE: Mouse IgG₁

IMMUNOGEN

Synthetic peptide derived from the human ankyrin B protein.

SPECIFICITY

This antibody is specific for the ankyrin B protein, and does not react with ankyrin R or ankyrin G. Clone 2.20 reacts with ankyrin B isoforms containing a spectrin binding domain. On Western blots, it identifies bands at ~440, 220, and 150 kDa.

REACTIVITY

This antibody reacts with ankyrin B from human, mouse, and rat. Other species have not been tested.

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 – 1.0 µg/mL

Western Blotting: 1.0 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)

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PI333700

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BACKGROUND

The cytoplasmic domains of many integral membrane proteins, including ion channels and cell adhesion molecules, are linked to the actin/spectrin cytoskeletal network by a family of proteins known as ankyrins. Ankyrin molecules contain three distinct domains: an N-terminal membrane-binding domain (~89-95 kDa), a spectrin-binding domain (~62 kDa), and a C-terminal domain whose length varies as a result of alternative mRNA splicing. Sequences in the C-terminal domain are the most variable among ankyrin family members, which also include ankyrin R and ankyrin G. Ankyrin B, or brain-type ankyrin, is expressed predominantly as 220 and 440 kDa isoforms that are the products of a single gene.

RELATED PRODUCTS

Product	Clone/PAD	Cat. No.
Mouse anti-Ankyrin G	4G3F8	33-8800
Mouse anti-Actin	ZSA1	03-3100
Mouse anti-Sarcomeric Actin	ZMSA-5	18-0177
Rabbit anti-Actin	Polyclonal	18-0054
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

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

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