

ANK3 Rabbit mAb

Catalog No.: A28717 **Recombinant**

Basic Information

Observed MW

100-250 kDa

Calculated MW

480 kDa/204 kDa/203 kDa/111 kDa/161 kDa

Category

Primary antibody

Applications

WB,IF-P,IHC-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC3824

Background

Ankyrins are a family of proteins that are believed to link the integral membrane proteins to the underlying spectrin-actin cytoskeleton and play key roles in activities such as cell motility, activation, proliferation, contact, and the maintenance of specialized membrane domains. Multiple isoforms of ankyrin with different affinities for various target proteins are expressed in a tissue-specific, developmentally regulated manner. Most ankyrins are typically composed of three structural domains: an amino-terminal domain containing multiple ankyrin repeats; a central region with a highly conserved spectrin binding domain; and a carboxy-terminal regulatory domain which is the least conserved and subject to variation. Ankyrin 3 is an immunologically distinct gene product from ankyrins 1 and 2, and was originally found at the axonal initial segment and nodes of Ranvier of neurons in the central and peripheral nervous systems. Multiple transcript variants encoding different isoforms have been found for this gene.

Recommended Dilutions

WB 1:2000 - 1:5000**IF-P** 1:200 - 1:400**IHC-P** 1:1500 - 1:6000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000) a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID

288

Swiss Prot

Q12955

Immunogen

This information is considered to be commercially sensitive.

Synonyms

MRT37; ANKYRIN-G

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% Sodium azide, 0.05% BSA, 40% glycerol, pH7.3.

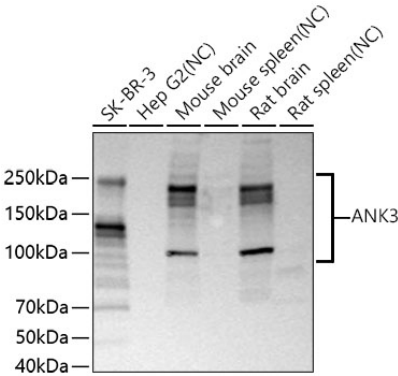
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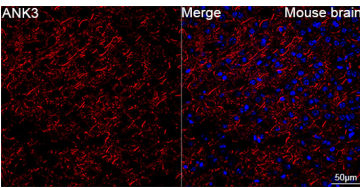


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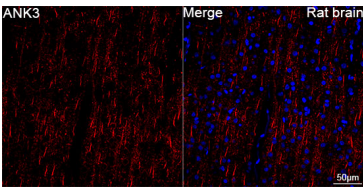
Validation Data



Western blot analysis of various lysates using ANK3 Rabbit mAb (A28717) at 1:1000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): Hep G2, Mouse spleen, Rat spleen.
Exposure time: 10 s.



Confocal imaging of paraffin-embedded Mouse brain tissue using ANK3 Rabbit mAb (A28717, dilution 1:300) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of paraffin-embedded Rat brain tissue using ANK3 Rabbit mAb (A28717, dilution 1:300) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.