



Mouse anti Annexin7 Monoclonal Antibody

Alternative Name(s): nan

Order Information

- **Description:** Annexin 7
- **Catalogue:** 605-500
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** ZA004
- **Application:** IHC(P), FC
- **Reactivity:** Hu

ANTIGEN PREPARATION

A recombinant protein of human Annexin VII

BACKGROUND

Annexin VII is a member of the annexin family of calcium-dependent phospholipid binding proteins. The Annexin VII gene contains 14 exons and spans approximately 34 kb of DNA. An alternatively spliced cassette exon results in two mRNA transcripts of 2.0 and 2.4 kb which are predicted to generate two protein isoforms differing in their N-terminal domain. The alternative splicing event is tissue specific and the mRNA containing the cassette exon is prevalent in brain, heart and skeletal muscle. The transcripts also differ in their 3'-non coding regions by the use of two alternative poly(A) signals. Annexin VII encodes a protein with a molecular weight of approximately 51 kDa with a unique, highly hydrophobic N-terminal domain of 167 amino acids and a conserved C-terminal region of 299 amino acids. Annexin VII is a membrane binding protein with diverse properties, including voltage-sensitive calcium channel activity, ion selectivity and membrane fusion. In normal skeletal muscle annexin VII is located preferentially at the plasma membrane and the t-tubule system. A remarkable difference was observed in muscle specimens from patients suffering from Duchenne muscular dystrophy and also in muscle from the MDX mouse where annexin VII was gradually released from the sarcolemmal membrane into the cytosol and into the extracellular space during progression of the disease.

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human Annexin 7 protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: 0.5-5 µg/10⁶ cells
- Molecular Weight: 51.0
- Positive Control: Kidney Tissue

FOR RESEARCH USE ONLY.

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- Cellular Location: Cell Membrane

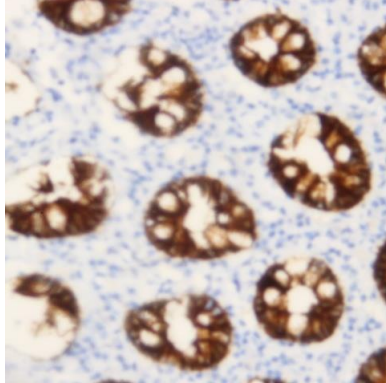
*Optimal dilutions should be determined by researchers for the specific applications.

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DATA ATTACHMENTS



Immunohistochemistry: Human kidney (FFPE) stained with Mouse anti-Annexin VII antibody (Cat#605-500) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

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