



Annexin VII Monoclonal Antibody

Catalog No	YP-mAb-04333
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ANXA7
Immunogen	The antiserum was produced against synthesized peptide derived from the Internal region of human ANXA7. AA range:271-320
Specificity	Annexin VII Monoclonal Antibody detects endogenous levels of Annexin VII protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ANXA7;Annexin 7;Annexin VII;Annexin-7;ANX7;Annexin A7;SNX;OK/SW-cl.95;Synexin
Observed Band	53kD
Calculated Molecular Weight	53kD
Cell Pathway	nucleus,nuclear envelope,endoplasmic reticulum membrane,cytosol,plasma membrane,membrane,chromaffin granule membrane,extracellular exosome,
Tissue Specificity	Isoform 1 is expressed in brain, heart and skeletal muscle. Isoform 2 is more abundant in liver, lung, kidney, spleen, fibroblasts and placenta.
Function	domain:A pair of annexin repeats may form one binding site for calcium and phospholipid.,function:Calcium/phospholipid-binding protein which promotes membrane fusion and is involved in exocytosis.,similarity:Belongs to the annexin family.,similarity:Contains 4 annexin repeats.,tissue specificity:Isoform 1 is expressed in brain, heart and skeletal muscle. Isoform 2 is more abundant in liver, lung, kidney, spleen, fibroblasts and placenta.,



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. The latter domain is composed of alternating hydrophobic and hydrophilic segments. Structural analysis of the

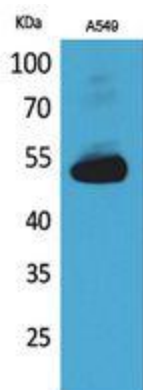
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Annexin VII Monoclonal Antibody