Annexin A4 (ANXA4) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Annexin A4 (ANXA4), Monoclonal Antibody
Full Product Name	Monoclonal Antibody to Annexin A4 (ANXA4)
Product Gene Name	anti-ANXA4 antibody
Product Synonym Names	ANXA4/Annexin A4; ANXA4; ANX4; PIG28; 35beta calcimedin; Carbohydratebinding protein p33/p41; Chromobindin4; Endonexin I; Lipocortin IV; Placental anticoagulant protein II
Clonality	Monoclonal
Isotype	IgG1 Kappa
Clone Number	C2
Host	Mouse
Species Reactivity	Human, Pig
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin300, 50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	1mg/mL (lot specific)
Specificity	The antibody is a mouse monoclonal antibody raised against ANXA4. It has been selected for its ability to recognize ANXA4 in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, 20 degree C for 24 months The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: ANXA4 Clone #C2 (MBS2139293) APC-CY7 Conjugated Antibody: ANXA4 Clone #C2 (MBS2136561)
Matching Pairs	Unconjugated Antibody: ANXA4 Clone #C2 (MBS2139293) PE Conjugated Antibody: ANXA4 Clone #C2 (MBS2136563)
Matching Pairs	Unconjugated Antibody: ANXA4 Clone #C2 (MBS2139293) APC Conjugated Antibody: ANXA4 Clone #C2 (MBS2136565)
Matching Pairs	Unconjugated Antibody: ANXA4 Clone #C2 (MBS2139293) Cy3 Conjugated Antibody: ANXA4 Clone #C2 (MBS2136567)
Matching Pairs	Unconjugated Antibody: ANXA4 Clone #C2 (MBS2139293) Biotin Conjugated Antibody: ANXA4 Clone #C2 (MBS2136569)
Matching Pairs	Unconjugated Antibody: ANXA4 Clone #C2 (MBS2139293) FITC Conjugated Antibody: ANXA4 Clone #C2 (MBS2136571)
Matching Pairs	Unconjugated Antibody: ANXA4 Clone #C2 (MBS2139293) HRP Conjugated Antibody: ANXA4 Clone #C2 (MBS2136573)
Molecular Weight	27,063 Da
OMIM	106491
3D Structure	ModBase 3D Structure for P09525

Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen Type	Prokaryotic Recombinant proteins/RP
Sequence of Immunogen	Ala2~Asp319
Conjugation	Unconjugated
Product Categories/Family for anti-ANXA4 antibody	Tumor immunity; Primary
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-ANXA4 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-ANXA4 antibody	WB: 0.52ug/mL IHC: 520ug/mL ICC: 520ug/mL
Related Product Information for anti-ANXA4 antibody	MBS2139293 is an antibody targeting ANXA4. Also known as Monoclonal Antibody to Annexin A4 (ANXA4). Reactive in Human, Pig. Host: Mouse.
Other Notes	Small volumes of anti-ANXA4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ANXA4. It may not necessarily be applicable to this product.

NCBI GI #	4502105
NCBI GeneID	307
NCBI Accession #	NP_001144.1
UniProt Primary Accession #	P09525
UniProt Secondary Accession #	Q96F33; Q9BWK1; B4DDF9
UniProt Related Accession #	P09525
GenBank Nucleotide #	NM_001153.3
NCBI Official Full Name	annexin A4
NCBI Official Synonym Full Names	annexin A4
NCBI Official Symbol	ANXA4
NCBI Official Synonym Symbols	ANX4; PIG28; ZAP36; HEL-S-274
UniProt Protein Name	Annexin A4
UniProt Synonym Protein Names	35-beta calcimedin; Annexin IV; Annexin-4; Carbohydrate-binding protein p33/p41; Chromobindin-4; Endonexin I; Lipocortin IV; P32.5; PP4-X; Placental anticoagulant protein II; PAP-II; Protein II
Protein Family	Annexin
UniProt Gene Name	ANXA4
UniProt Synonym Gene Names	ANX4; PAP-II
UniProt Entry Name	ANXA4_HUMAN
NCBI Protein Information	annexin A4; 35-beta calcimedin; P32.5; PAP-II; PP4-X; annexin IV (placental anticoagulant protein II); annexin-4; carbohydrate-binding protein p33/p41; chromobindin-4; endonexin I; epididymis secretory protein Li 274; lipocortin IV; proliferation-inducing

NCBI Summary for ANXA4	Annexin IV (ANX4) belongs to the annexin family of calcium-dependent phospholipid binding proteins. Although their functions are still not clearly defined, several members of the annexin family have been implicated in membrane-related events along exocytotic and endocytotic pathways. ANX4 has 45 to 59% identity with other members of its family and shares a similar size and exon-intron organization. Isolated from human placenta, ANX4 encodes a protein that has possible interactions with ATP, and has in vitro anticoagulant activity and also inhibits phospholipase A2 activity. ANX4 is almost exclusively expressed in epithelial cells. [provided by RefSeq, Jul 2008]
UniProt Comments for ANXA4	ANXA4: a calcium/phospholipid-binding protein which promotes membrane fusion and is involved in exocytosis. Annexins are a family of structurally related proteins whose common property is calcium-dependent binding to phospholipids. There are at least ten different annexins in mammalian species. Annexins do not contain signal peptides, yet some annexins (A1, A2 and A5) appear to be secreted in a physiologically regulated fashion. Protein type: Lipid-binding; Calcium-binding Chromosomal Location of Human Ortholog: 2p13 Cellular Component: nuclear membrane; cell surface; perinuclear region of cytoplasm; cytoplasm; plasma membrane; vesicle membrane; nucleus Molecular Function: phospholipase inhibitor activity; identical protein binding; NF-kappaB binding; calcium-dependent phospholipid binding; calcium ion binding; calcium-dependent protein binding Biological Process: regulation of transcription from RNA polymerase II promoter; epithelial cell differentiation; inhibition of NF-kappaB transcription factor; negative regulation of catalytic activity; signal transduction; negative regulation of apoptosis
Research Articles on ANXA4	**1.** Fhit delocalizes annexin A4 from plasma membrane to cytosol and sensitizes lung cancer cells to paclitaxel.
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