Annexin IV (Tyr255) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	Annexin IV (ANXA4), Blocking Peptide
Full Product Name	Annexin IV (Tyr255) Blocking Peptide
Product Gene Name	ANXA4 blocking peptide
Product Synonym Names	35 beta calcimedin; 35-beta calcimedin; AIV; Annexin 4; Annexin A4; Annexin IV (placental anticoagulant protein II); Annexin IV; Annexin IV placental anticoagulant protein II; Annexin-4; AnnexinA4; AnnexinIV; ANX 4; ANX A4; ANX4; ANXA 4; ANXA4; ANXA4 protein; ANXA4_HUMAN; Carbohydrate binding protein P33/P41; Carbohydrate-binding protein p33/p41; Chromobindin 4; Chromobindin-4; Chromobindin4; DKFZp686H02120; Endonexin I; EndonexinI; Lipocortin IV; LipocortinIV; MGC75105; OTTHUMP00000160052; OTTHUMP00000202207; P32.5; P33/41; PAP II; PAP-II; PAPII; PIG 28; PIG28; Placental anticoagulant protein II; PP4 X; PP4-X; PP4X; Proliferation inducing gene 28; Proliferation inducing protein 28; Protein II; Xanx-4; ZAP 36; ZAP36
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Annexin IV (Tyr255) peptide (MBS9618166) is used for blocking the activity of Annexin IV (Tyr255) antibody (MBS9610448)
Molecular Weight	27,063 Da
OMIM	106491
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for ANXA4 blocking peptide	Blocking/Control
Related Product Information for ANXA4 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of ANXA4 blocking peptide 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.
Searchable Terms for ANXA4 purchase	MBS9618166 is a blocking peptide targeting ANXA4. Also known as Annexin IV (Tyr255) Blocking Peptide.

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 #	NP_001144.1
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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