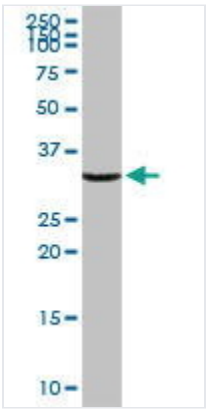
ANXA2 Antibody – Rabbit Polyclonal

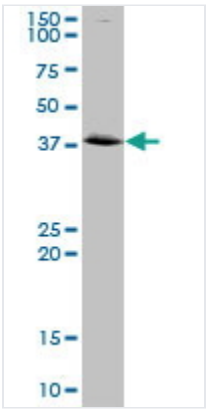
PRODUCT OVERVIEW

Product Name	ANXA2, Polyclonal Antibody
Full Product Name	ANXA2 (Annexin A2, Annexin II, Annexin-2, Calpactin I Heavy Chain, Calpactin-1 Heavy Chain, Chromobindin-8, Lipocortin II, Placental Anticoagulant
Product Gene Name	anti-ANXA2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ANXA2. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor
Molecular Weight	40,411 Da
OMIM	151740
3D Structure	ModBase 3D Structure for P07355
Immunogen	Full length human ANXA2, aa1-357 (NP_001002858.1).
Immunogen Sequence	MGRQLAGCGDAGKKASFKMSTVHEILCKLSLEGDHSTPPSAYGSVKAYTNFDAERDALNIETAIKTKGVDEVTIVNILTNRSNAQRQDIAFAYQRRTKKELA
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-ANXA2 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-ANXA2 antibody	Western Blot (WB)
Application Notes for anti-ANXA2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ANXA2 antibody	Annexin A2 (ANXA2), is an ~40kD member of the Annexin family of calcium-dependent phospholipid-binding proteins that are preferentially located on comprised of four 60-70aa annexin repeats. Annexin A2 also functions as an autocrine factor to enhance osteoclast formation and bone resorption and
Other Notes	Small volumes of anti-ANXA2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces

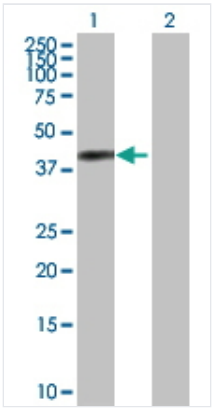
Searchable Terms for ANXA2 purchase	MBS6369915 is an antibody targeting ANXA2. Also known as ANXA2 (Annexin A2, Annexin II, Annexin-2, Calpactin I Heavy Chain, Calpactin-1 Heavy



Western Blot (WB) of anti-ANXA2 antibody
ANXA2 rabbit polyclonal antibody. Western Blot analysis of ANXA2 expression in human kidney.



Western Blot (WB) of anti-ANXA2 antibody
ANXA2 rabbit polyclonal antibody. Western Blot analysis of ANXA2 expression in mouse lung.



Western Blot (WB) of anti-ANXA2 antibody
Western Blot analysis of ANXA2 expression in transfected 293T cell line by ANXA2 polyclonal antibody. Lane 1: ANXA2 transfected lysate (40.4kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ANXA2. It may not necessarily be applicable to this product.

NCBI GI #	50845388
NCBI GeneID	302
NCBI Accession #	NP_001002858.1
UniProt Primary Accession #	P07355
UniProt Secondary Accession #	Q567R4; Q6N0B3; Q8TBV2; Q96DD5; Q9UDH8
UniProt Related Accession #	P07355
GenBank Nucleotide #	NM_001002858.1
NCBI Official Full Name	annexin A2 isoform 1
NCBI Official Synonym Full Names	annexin A2
NCBI Official Symbol	ANXA2
NCBI Official Synonym Symbols	P36; ANX2; LIP2; LPC2; CAL1H; LPC2D; ANX2L4; PAP-IV; HEL-S-270

UniProt Protein Name	Annexin A2
UniProt Synonym Protein Names	Annexin II; Annexin-2; Calpactin I heavy chain; Calpactin-1 heavy chain; Chromobindin-8; Lipocortin II; Placental anticoagulant protein IV; PAP-IV; Protein I; p36
Protein Family	Annexin
UniProt Gene Name	ANXA2
UniProt Synonym Gene Names	ANX2; ANX2L4; CAL1H; LPC2D; PAP-IV
UniProt Entry Name	ANXA2_HUMAN
NCBI Protein Information	annexin A2; annexin-2; protein I; annexin II; lipocortin II; chromobindin 8; chromobindin-8; calpactin I heavy chain; calpactin-1 heavy chain; calpactin I heavy polypeptide; placental anticoagulant protein IV; epididymis secretory protein Li 270
NCBI Summary for ANXA2	This gene encodes a member of the annexin family. Members of this calcium-dependent phospholipid-binding protein family play a role in the regulation of cellular growth and in signal transduction pathways. This protein functions as an autocrine factor which heightens osteoclast formation and bone resorption. This gene has three pseudogenes located on chromosomes 4, 9 and 10, respectively. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for ANXA2	ANXA2: a calcium-regulated membrane-binding protein whose affinity for calcium is greatly enhanced by anionic phospholipids. It binds two calcium ions with high affinity. Heterotetramer containing 2 light chains of S100A10 2 heavy chains of ANXA2. May cross-link plasma membrane phospholipids with actin and the cytoskeleton and be involved with 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: Motility/polarity/chemotaxis; Lipid-binding; Calcium-binding Chromosomal Location of Human Ortholog: 15q22.2 Cellular Component: extrinsic to plasma membrane; extracellular space; protein complex; cell surface; lysosomal membrane; late endosome membrane; early endosome; lipid particle; cell cortex; lipid raft; extracellular matrix; ruffle; membrane; perinuclear region of cytoplasm; melanosome; plasma membrane; basement membrane; midbody; nucleus; sarcolemma; endosome; vesicle Molecular Function: phosphatidylinositol-4,5-bisphosphate binding; protein binding; calcium-dependent phospholipid binding; phospholipase A2 inhibitor activity; cytoskeletal protein binding; calcium ion binding; calcium-dependent protein binding; Rab GTPase binding Biological Process: positive regulation of fibroblast proliferation; fibrinolysis; collagen fibril organization; negative regulation of catalytic activity; protein heterotetramerization; positive regulation of vesicle fusion; angiogenesis; positive regulation of binding; positive regulation of protein amino acid phosphorylation; lipid raft formation; body fluid secretion; membrane budding
Research Articles on ANXA2	**1.** Annexin A2 is a key molecule in the DDR-2/annexin A2/MMP-13 loop, the activation of which contributes to joint destruction in rheumatoid arthritis, mainly through promoting invasion of fibroblast-like synoviocytes.
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