

ANXA2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP7420b**Specification**

ANXA2 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P07355](#)**ANXA2 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 302

Other Names

Annexin A2, 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, ANXA2, ANX2, ANX2L4, CAL1H, LPC2D

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7420b](/products/AP7420b) was selected from the C-term region of human ANXA2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ANXA2 Antibody (C-term) Blocking Peptide - Protein Information

Name ANXA2

Synonyms ANX2, ANX2L4, CAL1H, LPC2D

Function

Calcium-regulated membrane-binding protein whose affinity for calcium is greatly enhanced by anionic phospholipids. It binds two calcium ions with high affinity. May be involved in heat-stress response. Inhibits PCSK9-enhanced LDLR degradation, probably reduces PCSK9 protein levels via a translational mechanism but also competes with LDLR for binding with PCSK9 (PubMed: [18799458](http://www.uniprot.org/citations/18799458), PubMed: [22848640](http://www.uniprot.org/citations/22848640), PubMed: [24808179](http://www.uniprot.org/citations/24808179)). Binds to endosomes damaged by phagocytosis of particulate wear debris and participates in endosomal

membrane stabilization, thereby limiting NLRP3 inflammasome activation (By similarity). Required for endothelial cell surface plasmin generation and may support fibrinolytic surveillance and neoangiogenesis (By similarity).

Cellular Location

Secreted, extracellular space, extracellular matrix, basement membrane. Melanosome. Note=In the lamina beneath the plasma membrane. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Translocated from the cytoplasm to the cell surface through a Golgi-independent mechanism

ANXA2 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

ANXA2 Antibody (C-term) Blocking Peptide - Images**ANXA2 Antibody (C-term) Blocking Peptide - Background**

ANXA2 is 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.

ANXA2 Antibody (C-term) Blocking Peptide - References

He,K.L., J. Biol. Chem. 283 (28), 19192-19200 (2008)Tamma,G., Pflugers Arch. 456 (4), 729-736 (2008)Gou,D., J. Biol. Chem. 283 (19), 13156-13164 (2008)