

ANXA2 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7420a**Specification**

ANXA2 Antibody (N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	P07355
Other Accession	A6NMY6 , Q07936 , P19620 , P04272 , A2SW69
Reactivity	Human, Mouse
Predicted	Bovine, Pig, Rat, Sheep
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	19-49

ANXA2 Antibody (N-term) - 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

This ANXA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19-49 amino acids from the N-terminal region of human ANXA2.

Dilution

WB~~1:2000

IHC-P~~1:25

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ANXA2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ANXA2 Antibody (N-term) - 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](#), PubMed:[22848640](#), PubMed:[24808179](#)).

Cellular Location

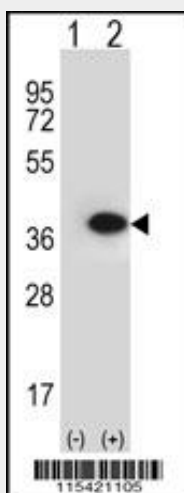
Secreted, extracellular space, extracellular matrix, basement membrane. Melanosome. Note=In the lamina beneath the plasma membrane. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Translocated from the cytoplasm to the cell surface through a Golgi-independent mechanism

ANXA2 Antibody (N-term) - Protocols

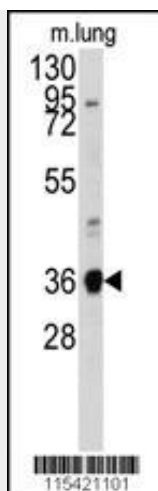
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

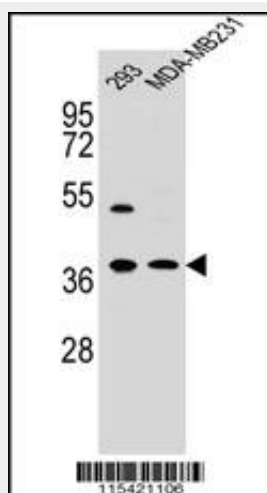
ANXA2 Antibody (N-term) - Images



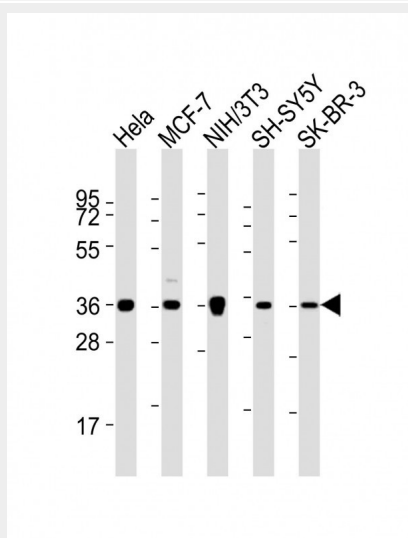
Western blot analysis of ANXA2 (arrow) using rabbit polyclonal ANXA2 Antibody (N-term) (Cat.#AP7420a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the ANXA2 gene.



Western blot analysis of anti-ANXA2 Antibody (N-term) (Cat.#AP7420a) in mouse lung tissue lysates (35ug/lane). ANXA2 (arrow) was detected using the purified Pab.

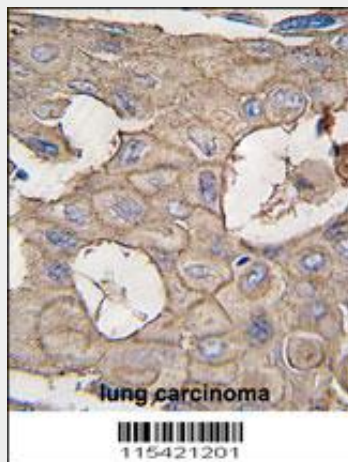


ANXA2 Antibody (N-term) (Cat. #AP7420a) western blot analysis in 293,MDA-MB231 cell line lysates (35ug/lane). This demonstrates the ANXA2 antibody detected the ANXA2 protein (arrow).

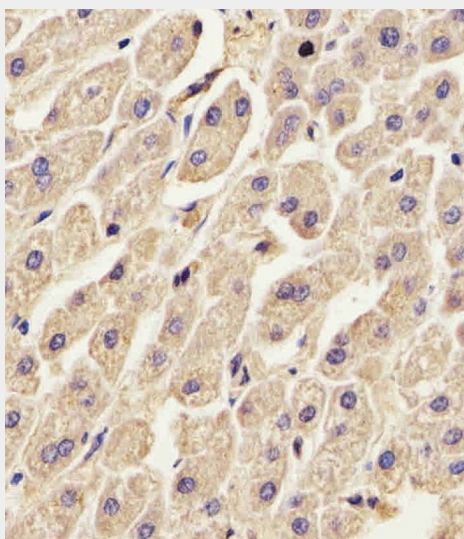


All lanes : Anti-ANXA2 Antibody (N-term) at 1:2000 dilution Lane 1: HeLa whole cell lysates Lane 2: MCF-7 whole cell lysates Lane 3: NIH/3T3 whole cell lysates Lane 4: SH-SY5Y whole cell lysates

Lane 5: SK-BR-3 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 39 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with ANXA2 antibody (N-term) (Cat.#AP7420a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



AP7420a staining ANXA2 in Human liver tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

ANXA2 Antibody (N-term) - 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 (N-term) - 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)

ANXA2 Antibody (N-term) - Citations

- [Plasmin induces intercellular adhesion molecule 1 expression in human endothelial cells via nuclear factor- \$\kappa\$ B/mitogen-activated protein kinases-dependent pathways.](#)
- [Plasmin plays an essential role in amplification of psoriasiform skin inflammation in mice.](#)