

Anti-Annexin A2 Antibody

Catalog # ABO10672

Product Information

Application	WB, IHC-P, IHC-F
Primary Accession	P07355
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Annexin A2(ANXA2) detection. Tested with WB, IHC-P, IHC-F in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

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
Calculated MW	38604
Application Details	Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml, Human, Mouse, Rat, - Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Mouse, Rat
Subcellular Localization	Secreted, extracellular space, extracellular matrix, basement membrane . Melanosome . 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.
Source	Eukaryota
Protein Name	Annexin A2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Annexin A2(121-141aa RAEDGSVIDYELIDQDARDLY), different from the rat sequence by one amino acid.

Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the annexin family.

Protein Information

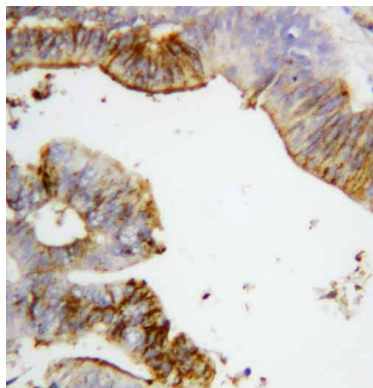
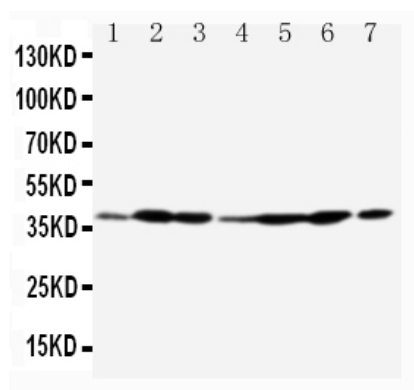
Name	ANXA2
Synonyms	ANX2, ANX2L4, CAL1H, LPC2D
Function	Calcium-regulated membrane-binding protein whose affinity for calcium is greatly enhanced by anionic phospholipids. It binds two calcium ions with high affinity. May be involved in heat-stress response. Inhibits PCSK9-enhanced LDLR degradation, probably reduces PCSK9 protein levels via a translational mechanism but also competes with LDLR for binding with PCSK9 (PubMed: 18799458 , PubMed: 22848640 , PubMed: 24808179). 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

Background

Annexin A2 also known as annexin II is a protein that in humans is encoded by the ANXA2 gene. The ANXA2 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. This protein 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. Richard et al.(1994) presented an integration of the physical, expression, and genetic maps of human chromosome 15. They placed the ANXA2 gene in their region IV, i.e., 15q21-q22, thus confirming the previous localization.

Images

Anti-Annexin A2 antibody, ABO10672, Western blotting
Lane 1: Rat Testis Tissue Lysate
Lane 2: Rat Lung Tissue Lysate
Lane 3: Rat Ovary Tissue Lysate
Lane 4: MCF-7 Cell Lysate
Lane 5: SMMC Cell Lysate
Lane 6: A549 Cell Lysate
Lane 7: JURKAT Cell Lysate



Anti-Annexin A2 antibody, ABO10672, IHC(P)IHC(P):
Human Intestinal Cancer Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.