10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat Anti-Calretinin Antibody
Peptide-affinity purified goat antibody
Catalog # AF1182a

Specification

Goat Anti-Calretinin Antibody - Product Information

Application	**WB, E**
Primary Accession	P07355
Other Accession	NP_001129487, 302, 12306 (mouse), 56611 (rat)
Reactivity	**Human, Mouse**
Predicted	**Rat, Pig**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**38604**

Goat Anti-Calretinin Antibody - 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

Dilution
WB~~1:1000
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-Calretinin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Calretinin Antibody - 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

Goat Anti-Calretinin Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-Calretinin Antibody - Images

AF1182a staining (0.5 µg/ml) of A431 lysate (RIPA buffer, 35 µg total protein per lane). Primary

incubated for 1 hour. Detected by western blot using chemiluminescence.

Goat Anti-Calretinin Antibody - Background

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.

Goat Anti-Calretinin Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.
A role for the annexin A2 amino-terminal peptide in the plasmin-induced activation of human peripheral monocytes. Li Q, et al. Mol Immunol, 2010 Aug. PMID 20627396.
[A study of the single nucleotide polymorphism in seven genes (GHR, IGFBP3, IGFR1, IRS1, FMN1, ANXA2, TaGLN) in ethnic Russians and in patients with prostate cancer] Lisitskaia KV, et al. Mol Gen Mikrobiol Virusol, 2010. PMID 20540360.
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.
Role of annexin A2 in the production of infectious hepatitis C virus particles. Backes P, et al. J Virol, 2010 Jun. PMID 20335258.