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Certificate of Analysis and Data Sheet

GOAT ANTI HUMAN ANNEXIN II

With HRP-conjugated secondary antibody

Catalog No.
DS-PB-00175

Species:
Human

Isotype:
Goat IgG

Description

The Annexin family of calcium-binding proteins is composed of at least ten mammalian genes and is characterized by a conserved core domain which binds phospholipids in a Ca^{2+} -dependent manner and a unique amino-terminal region which may confer binding specificity. The interaction between these proteins and biological membranes has led to the hypothesis that they are involved in cellular trafficking processes such as endocytosis, exocytosis and cellular adhesion. Annexin I, alternatively referred to as lipocortin, has been implicated as a mediator of the anti-inflammatory response produced by glucocorticoids and as an inhibitor of cPLA2, a potent mediator of inflammation. Annexin II, also called p36, exists as a monomer or as a heterotetramer, complexed with the S-100-related protein p11. This complex is termed calpactin I. In the tetrameric form, Annexin II is an efficient substrate of PKC family and Src pp60.

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			•	
Western Blotting	•			
Immunohistology - frozen			•	
Immunohistology - paraffin			•	
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry			•	
Immunofluorescence staining			•	
Neutralization			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

The products are furnished for LABORATORY RESEARCH USE ONLY.

Not for diagnostic or therapeutic use.



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Preparation

Immunogen was synthetic peptide with the sequence STVHEILCKLSLEGD from the N terminus of the protein (accession number NP_004030). Antisera to the immunogen were raised by repeated immunisation of goat with antigen. The IgG fraction of immunized sera was purified by affinity chromatography.

Specificity

DS-PB-00175 recognises Annexin II, a member of a family of structurally related calcium binding proteins implicated in mediating the intracellular action of calcium. Cellular levels of annexin II mRNA and protein are strictly regulated during the mammalian cell cycle with maximal expression as cells enter S-phase.

Reconstitution

Supplied as 0.1mg of purified liquid antibody in TBS, containing 0.02% Sodium azide and 0.5% Bovine serum albumin. Its final concentration is 0.5 mg/ml. **Please avoid freeze-thaw cycles.**

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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