

ANXA5 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50363

Clone# BP6331

Predicted Molecular Wt: 36kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P08758

Background:

ANXA5 is an anticoagulant protein that indirectly inhibits the thromboplastin-specific complex, a component involved in the blood coagulation cascade.

ANXA5 is widely and highly expressed in various normal tissues including myocardium, liver, lung, kidney, placenta, prostate, and small intestine. It exhibits the highest abundance in cardiomyocytes and hepatic endothelial cells, while also maintaining stable high expression in immune tissues such as macrophages. This high-abundance characteristic is established under physiological conditions and is further upregulated in corresponding diseases.

Autoantibodies in antiphospholipid syndrome (APS) patients disrupt the ANXA5 barrier on the placental trophoblast surface, leading to coagulation activation and recurrent miscarriage. Assessing antibody interference with shields via in vitro "ANXA5 resistance" assays aids APS diagnosis and predicts thrombotic risk. Concurrently, low transcription variants of the ANXA5 promoter region M2 haplotype are significantly associated with hereditary thrombophilia and recurrent pregnancy loss, making them viable genetic screening markers.

Subcellular location:

Secreted/Membrane/Cytoplasm

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

The synthetic peptide corresponding to Human ANXA5 aa 30-79

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

1. Yujia, B. et al. (2022) Journal of medicinal chemistry. 65:16432-16450
2. Henning Karlsson. et al. (2022) Oncology letters 23:123



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human placenta labelling ANXA5 with BP6331.

Product QC'd by: 

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