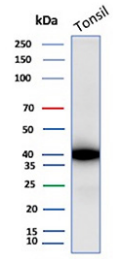
Apolipoprotein J Antibody / ApoJ / Clusterin [clone r7D1] (V5860)

Catalog No.	Formulation	Size
V5860-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5860-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5860SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

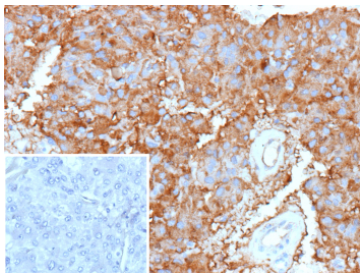
Recombinant MOUSE MONOCLONAL

Bulk quote request

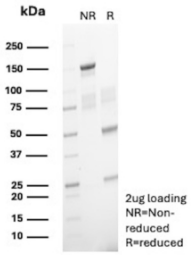
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	r7D1
UniProt	P10909
Localization	Cytoplasm, Secreted
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 2-4ug/ml
Limitations	This Apolipoprotein J/ApoJ antibody is available for research use only.



Apolipoprotein J Antibody Tonsil WB. Western blot analysis of human tonsil tissue lysate using recombinant Apolipoprotein J/ApoJ antibody (clone r7D1). Predicted molecular weight: 36-39 kDa (alpha subunit).



Apolipoprotein J Antibody Adrenal Tissue IHC. Immunohistochemistry analysis of formalin-fixed, paraffin-embedded human adrenal gland tissue using recombinant Apolipoprotein J/ApoJ antibody (clone r7D1). Diffuse cytoplasmic staining is observed in adrenal cortical cells, with granular signal distribution and variable intensity across the tissue. Vascular and stromal elements show minimal background staining. Nuclei are counterstained in blue. Inset shows PBS substituted for the primary antibody as a secondary-only negative control. Heat-induced antigen retrieval was performed by heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 minutes at 95oC, followed by cooling at room temperature for 20 minutes.



SDS-PAGE Analysis of Purified recombinant Apolipoprotein J/ApoJ antibody (clone r7D1). Confirmation of Purity and Integrity of Antibody.

Description

Apolipoprotein J antibody targets Apolipoprotein J, a multifunctional glycoprotein encoded by the CLU gene that is also widely known as Clusterin and ApoJ. Apolipoprotein J functions as an extracellular and intracellular molecular chaperone involved in protein quality control, lipid transport, and cellular stress responses. The protein is expressed in a broad range of tissues, including brain, adrenal gland, kidney, liver, reproductive organs, and epithelial tissues, and can localize to the cytoplasm, nucleus, cell surface, or extracellular space depending on cellular context. Apolipoprotein J antibody is frequently used in research focused on cellular stress pathways, protein homeostasis, and tissue injury responses.

Apolipoprotein J exists in multiple isoforms generated through alternative splicing and post-translational processing, resulting in both secreted and intracellular forms with distinct biological roles. The secreted form, often referred to as apolipoprotein J or ApoJ, is associated with lipid transport and extracellular chaperone activity, while intracellular Clusterin has been implicated in apoptosis regulation, DNA damage responses, and cell survival signaling. In the nervous system, Apolipoprotein J expression has been linked to synaptic maintenance and neuroprotection, whereas in endocrine and epithelial tissues it is often associated with differentiation and secretory activity. Clone r7D1 is designed to recognize Apolipoprotein J for research use in studies examining CLU and ApoJ expression and subcellular distribution.

Altered Apolipoprotein J expression has been reported in a variety of pathological conditions, including neurodegenerative disorders, cardiovascular disease, inflammation, and cancer. In oncology research, CLU and ApoJ have been investigated for associations with tumor progression, therapy resistance, and cellular adaptation to stress. Changes in Apolipoprotein J expression have also been linked to tissue remodeling and injury responses in organs such as the brain and kidney. Clone r7D1 provides a tool for examining Apolipoprotein J expression and distribution in experimental systems relevant to tissue homeostasis and disease-associated stress responses.

This Apolipoprotein J antibody complements a related Clusterin antibody used to study CLU, APO-J, and Apolipoprotein J biology.

Application Notes

1. Optimal dilution of the Apolipoprotein J/ApoJ antibody should be determined by the researcher.

2. This Apolipoprotein J/ApoJ antibody is recombinantly produced by expression in CHO cells.

Immunogen

Prokaryotic recombinant protein corresponding to a portion of the alpha subunit of the human clusterin molecule was used as the immunogen for the Apolipoprotein J/ApoJ antibody.

Storage

Apolipoprotein J/ApoJ antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

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