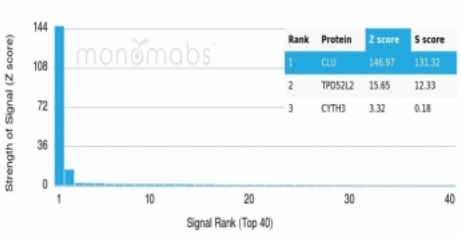
Apolipoprotein J Antibody / APO-J / Clusterin [clone CLU/4737] (V5663)

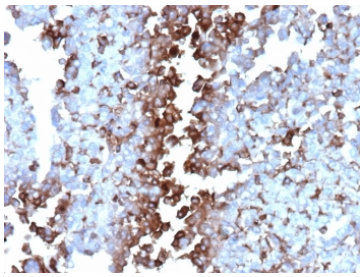
Catalog No.	Formulation	Size
V5663-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5663-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5663SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

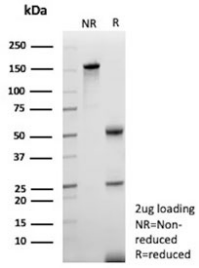
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2, kappa
Clone Name	CLU/4737
Purity	Protein G affinity
UniProt	P10909
Localization	Cytoplasm, Secreted
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This Apolipoprotein J antibody is available for research use only.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Apolipoprotein J antibody (clone CLU/4737). These results demonstrate the foremost specificity of the CLU/4737 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



IHC staining of FFPE human adrenal gland tissue with Apolipoprotein J antibody (clone CLU/4737). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Apolipoprotein J antibody (clone CLU/4737) as confirmation of integrity and purity.

Description

Clusterin, also designated complement lysis inhibitor (CLI), apolipoprotein J (APOJ), sulfated glycoprotein 2 (SGP2), SP40 and testosterone-repressed prostate message 2 (TRPM2), is a secretory, heterodimeric glycoprotein that influences immune regulation, cell adhesion, transformation, lipid transportation, tissue remodeling, membrane recycling and cell-cell interactions. Clusterin is synthesized as a 449 amino acid polypeptide that is post-translationally cleaved at an internal bond between Arg 227 and Ser 228. Two subunits, alpha and beta, are associated through disulfide bonds. The beta subunit (also called ApoJ-beta) corresponds to residues 23-227. The alpha subunit (also called ApoJ-a) corresponds to residues 228-449. Overexpression of Clusterin appears to be more common in late stages of mammary tumor progression. Clusterin markedly influences b-Amyloid structure and neuritic toxicity in vivo and may influence Alzheimer s pathogenesis.

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

Application Notes

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

Immunogen

A portion of amino acids 150-300 from human Clusterin protein was used as the immunogen for the Apolipoprotein J antibody.

Storage

Aliquot the Apolipoprotein J antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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