

Clusterin Antibody / Apolipoprotein J / APO-J [clone CLU/4736] (V5662)

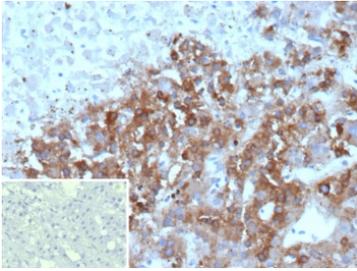
| Catalog No. | Formulation | Size |
|----------------|---|--------|
| V5662-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V5662-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V5662SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

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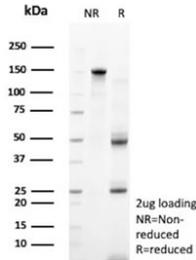
| | |
|---------------------------|---|
| Availability | 1-3 business days |
| Species Reactivity | Human |
| Format | Purified |
| Host | Mouse |
| Clonality | Monoclonal (mouse origin) |
| Isotype | Mouse IgG2b, kappa |
| Clone Name | CLU/4736 |
| Purity | Protein G affinity |
| UniProt | P10909 |
| Localization | Cytoplasm, Secreted |
| Applications | Immunohistochemistry (FFPE) : 1-2ug/ml |
| Limitations | This Clusterin antibody is available for research use only. |



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Clusterin antibody (clone CLU/4736). These results demonstrate the foremost specificity of the CLU/4736 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 Clusterin antibody (clone CLU/4736). 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 Clusterin antibody (clone CLU/4736) 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, $\tilde{\alpha}^1$ and $\tilde{\alpha}^3$, are associated through disulfide bonds. The $\tilde{\alpha}^3$ subunit (also called ApoJ $\tilde{\alpha}^3$) corresponds to residues 23-227. The $\tilde{\alpha}^1$ subunit (also called ApoJ $\tilde{\alpha}^1$) corresponds to residues 228-449. Overexpression of Clusterin appears to be more common in late stages of mammary tumor progression. Clusterin markedly influences $\tilde{\alpha}^3$ -Amyloid structure and neuritic toxicity in vivo and may influence Alzheimer's pathogenesis.

Application Notes

Optimal dilution of the Clusterin antibody should be determined by the researcher.

Immunogen

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

Storage

Aliquot the Clusterin antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.