

## Clusterin / Apolipoprotein J (APO-J) Antibody

Mouse Monoclonal Antibody [Clone CLU/4730]

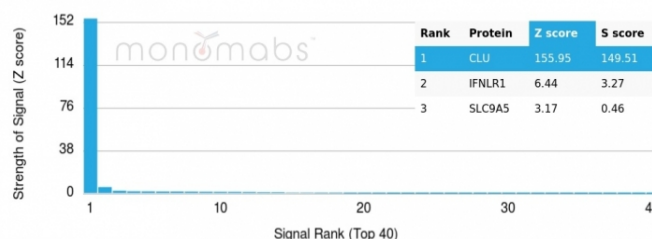
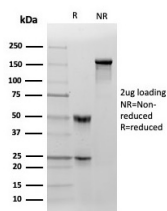
Catalog No	Format	Size
1191-MSM10-P0	Purified Ab with BSA and Azide	200ug/ml
1191-MSM10-P1	Purified Ab with BSA and Azide	200ug/ml
1191-MSM10-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

Applications	Tested Dillution
Immunohistochemistry (IHC)	1-2ug/ml

Product Details	
<b>Clone</b>	CLU/4730
<b>Gene Name</b>	CLU
<b>Immunogen</b>	Recombinant fragment (around aa185-287) of human NPM1 protein (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2b / Kappa
<b>Mol. Weight of Antigen</b>	70kDa (precursor); 36-39kDa (α <sup>1</sup> / <sub>4</sub> <sup>a</sup> ); 34-36kDa (α <sup>2</sup> / <sub>4</sub> )
<b>Cellular Localization</b>	Chromaffin granule, Cytoplasm, Cytoplasmic vesicle, Cytosol, Endoplasmic reticulum, Microsome, Mitochondrion, Mitochondrion membrane, Nucleus, Perinuclear region, Secreted, Secretory vesicle
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Human pancreas, tonsil or cervix.

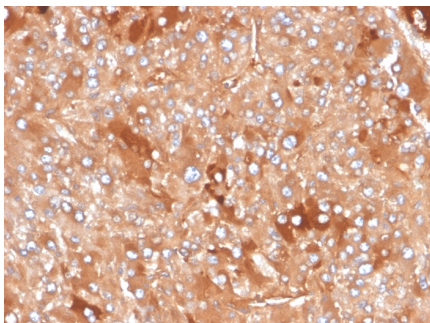
\*Optimal dilution for a specific application should be determined.

### Product Images for Clusterin / Apolipoprotein J (APO-J) Antibody



SDS-PAGE Analysis of Purified Clusterin / APOJ Mouse Monoclonal Antibody (CLU/4730). Confirmation of Purity and Integrity of Antibody.

Analysis of Protein Array containing more than 19,000 full-length human proteins using Clusterin / APOJ Mouse Monoclonal Antibody (CLU/4730) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human adrenal gland stained with Clusterin / APOJ Mouse Monoclonal Antibody (CLU/4730).

### Specificity & Comments

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  $\alpha$  subunit (also called ApoJ $\alpha$ ) corresponds to residues 23-227. The  $\beta$  subunit (also called ApoJ $\beta$ ) corresponds to residues 228-449. Overexpression of Clusterin appears to be more common in late stages of mammary tumor progression. Clusterin markedly influences  $\beta$ -Amyloid structure and neuritic toxicity in vivo and may influence Alzheimer's pathogenesis.

### Research Areas

Cardiovascular, Immunology, Neuroscience, Complement System

### Known Applications & Suggested Dilutions

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT), (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.