

Mouse Anti-Apolipoprotein J (Clusterin) [MD125]: MC0497, MC0497RTU7

Intended Use: For Research Use Only

Description: Apolipoprotein J (Clusterin) is a 75 - 80 kDa disulfide-linked heterodimeric protein associated with the clearance of cellular debris and apoptosis. It is a stress-induced cytoprotective chaperone protein regulated by HSF1 and functions similarly to a small heat-shock protein. Clusterin is distributed widely in human tissues and fluids, including normal epithelial cells, plasma, cerebrospinal fluid, breast milk, semen and urine. Clusterin is expressed in a wide variety of hematopoietic and non-hematopoietic tumors. It is present in 80–100% of systemic anaplastic large cell lymphomas. Adding clusterin to antibody panels designed to distinguish systemic anaplastic large cell lymphoma from classical Hodgkin's disease is useful. In a study by Grogg et al. on 202 spindle cell tumors, Clusterin was found to be highly sensitive and specific for follicular dendritic cell tumors. Overexpression of Clusterin is associated with poor prognosis and recurrence in breast cancer. Expression of Clusterin in cervical cancer is correlated with chemosensitivity and predicts poor survival.

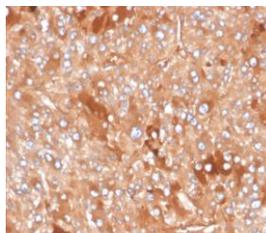
Specifications:

Clone: MD125
Source: Mouse
Isotype: IgG2b/k
Reactivity: Human
Immunogen: Recombinant fragment around aa185-287 of human NPM1 protein
Localization: Cytoplasm
Formulation: Antibody in PBS pH7.2, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC
Package:

Description	Catalog No.	Size
Apolipoprotein J (Clusterin) Concentrated	MC0497	1 ml
Apolipoprotein J (Clusterin) Prediluted	MC0497RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Tonsil, breast cancer
Concentrated Dilution: 50-200
Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual
* Result should be confirmed by an established diagnostic procedure.



FFPE human adrenal gland stained with anti-ApoJ using DAB

References:

1. Tracing tumorigenesis in a solid tumor model at single-cell resolution. Praktiknjo SD, et al. Nat Commun 11:991 2020.
2. Chronic cerebral hypoperfusion shifts the equilibrium of amyloid β oligomers to aggregation-prone species with higher molecular weight. Bannai T, et al. Sci Rep 9:2827, 2019.
3. Smoking accelerates aging of the small airway epithelium. Walters MS, et al. Respir Res 15:94, 2014.

Doc. 100-MC0497
Rev. A