

Transthyretin Monoclonal Antibody (9G6)

Catalog Number      LF-MA0228

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested Applications	
Class	Monoclonal	Immunoprecipitation (IP)	5 µg
Type	Antibody	Western Blot (WB)	1-3 µg/mL
Clone	9G6	Immunocytochemistry (ICC/IF)	2 µg/mL
Immunogen	Protein purified from Human Plasma	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

A suggested positive control for this product is human Plasma.

Background/Target Information

Transthyretin (TTR), generally called prealbumin, is a plasma protein that plays an important role in physiology such as a transporter of hormone thyroxine and retinal-binding protein. After produced primarily in the liver, TTR is excreted into the plasma. TTR represents a disproportionate fraction (25%) of CSF protein, prompting the suggestion that it is either selectively transported across the blood-CSF barrier or synthesized de novo within the central nervous system. Transthyretin is a constituent found to the neuritic plaques, neurofibrillary tangles, and microangiopathic lesions of senile cerebral amyloid. It has been reported that more than 40 different mutations in the TTR gene associated with amyloid deposition.

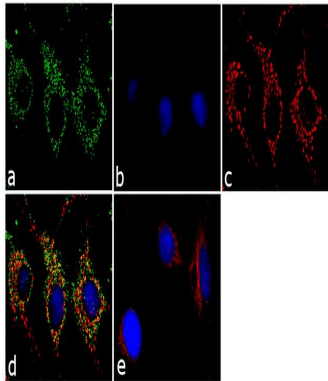
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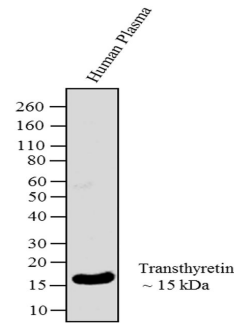
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Product Images For Transthyretin Monoclonal Antibody (9G6)



**Transthyretin Antibody (LF-MA0228) in ICC/IF**

Immunofluorescence analysis of Transthyretin was performed using 70% confluent log phase Hep G2 cells. The cells were fixed with methanol for 5 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with Transthyretin (9G6) Mouse Monoclonal Antibody (Product # LF-MA0228) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Cytoskeleton was stained with alpha-Tubulin Monoclonal Antibody (Product # PA5-16891, 1 µg/mL) followed by Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 594 conjugate (Product # A-11037) (Panel c: red). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



**Transthyretin Antibody (LF-MA0228) in WB**

Western blot analysis was performed on 5 µL of Human Plasma. The blot was probed with Transthyretin Mouse monoclonal Antibody (Product # LF-MA0228, 2 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 15 kDa band corresponding to Transthyretin was observed in Human Plasma tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

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