

Human α₂-Macroglobulin Alexa Fluor® 405-conjugated

Antigen Affinity-purified Polyclonal Goat IaG

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Catalog Number:	AF1938V
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DESCRIPTION		
Species Reactivity	Human	
Specificity	$Detects\ human\ \alpha_2\text{-}Macroglobulin\ in\ direct\ ELISAs\ and\ Western\ blots.\ In\ direct\ ELISAs,\ less\ than\ 2\%\ cross-reactivity\ with\ recombinant\ human\ and\ recombinant\ human\ recombination of the property of t$	
	α ₂ -Macroglobulin-like 1 is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	Human plasma-derived α ₂ -Macroglobulin	
Conjugate	Alexa Fluor 405	
	Excitation Wavelength: 405 nm	
	Emission Wavelength: 421 nm	
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet	
	(SDS) for additional information and handling instructions.	

APPLICATIONS		
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.		
Western Blot	Optimal dilution of this antibody should be experimentally determined.	
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.	
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.	

PREPARATION AND STORAGE		
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied	

Human α₂-macroglobulin (hα2M) is a serum glycoprotein that has sequence similarity to other members of the α2M family including complement components C3, C4 and C5 (1). a2M is synthesized as a polypeptide of 1474 amino acids with a signal peptide (23 residues) (2). The mature protein is a tetramer (720 kDa) of 4 identical subunits (180 kDa), which form two disulfide bond-linked dimers. As a general and irreversible protease inhibitor implicated in many processes, a2M is able to inhibit all four classes of proteases by a unique trapping mechanism. The bait region of hα2M (residues 690-728) contains specific cleavage sites for different proteases. The cleavage of the bait region by a protease induces a conformation change in α2M, which then traps and forms a covalent bond with the protease. The trapped protease remains active against small peptide substrates but loses its ability to interact with large protein substrates or inhibitors.

PRODUCT SPECIFIC NOTICES

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