

Human CD7 Alexa Fluor® 750-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF7579S

100 µg

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human CD7 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse CD7 is observed.	
Source	Polyclonal Sheep IgG	
Purification	Antigen Affinity-purified	
Immunogen	Kidney embryonic cell line HEK293-derived recombinant human CD7 Ala26-Pro180 Accession # P09564	
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.			
CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.		
Western Blot	Optimal dilution of this antibody should be experimentally determined.		
Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.		
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.		
Immunohistochemistry	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

BACKGROUND

CD7 (Cluster of Differentiation Antigen 7; also Leu-9, TP41 and GP40) is a 40-44 kDa member of the Ig-superfamily of proteins. It shows restricted expression, being found on fetal thymocytes, CD34⁺ myeloid and lymphoid progenitor cells, memory CLA- CD45RA⁺ T cells, and CD56⁺ IFN- γ secreting NK cells. CD7 binds to both SECTM1/K12 and galectin-1, and when bound to the latter, initiates complex formation with CD43 in cis. Activation of CD7 may result in either cell proliferation or apoptosis, suggesting a context-dependent signaling mechanism. Mature human CD7 is a 215 amino acid (aa) type I transmembrane glycoprotein. It contains a 155 aa extracellular region (aa 26-180) that shows one V-type Ig-like domain (aa 26-130), and a 39 aa C-terminal cytoplasmic domain. There is one potential alternative splice variant that contains a 79 aa substitution for aa 133-240. Over aa 26-180, human CD7 shares only 43% aa sequence identity with mouse CD7.

PRODUCT SPECIFIC NOTICES

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