

CD26 Polyclonal Antibody

Catalog Number **PA5-32728**

Product data sheet

Details		Species Reactivity	
Size	50 µg	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal		
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	5-10 µg/mL
Immunogen	Synthetic 15 amino acid peptide from N-terminus of human CD26.	* 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	1.0 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.1% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Percent identity with other species by BLAST analysis: Human, Orangutan, Gibbon, Monkey (100%); Gorilla, Marmoset, Bovine (93%); Cat, Rabbit (87%); Dog, Bat, Elephant, Panda, Horse (80%). For IHC(P), use heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen.

Background/Target Information

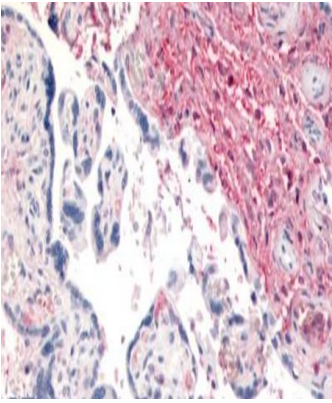
CD26 (dipeptidyl peptidase IV, DPP IV), adenosine deaminase (ADA) binding protein) is a homodimeric atypical serine protease belonging to the prolyl oligopeptidase family. CD26 is expressed on lymphocyte cells and is upregulated during T-cell activation. CD26 is also expressed on activated B cells and natural killer cells and abundantly on epithelia. CD26 is implicated in a variety of biological functions including T-cell activation, cell adhesion with extracellular matrix such as fibronectin or collagens, and in HIV infection. CD26 identical to adenosine deaminase complexing protein-2, and to the T-cell activation antigen CD26. Further, CD26 is an intrinsic membrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. Alterations in CD26 peptidase activity are characteristic of malignant transformation, and the enzymatic activity increases dramatically with tumor grade and severity. CD26 is expressed in various blood cell types, but also in cells that are histogenetically related to activated fibroblasts. Alterations in CD26 density have been reported on circulating monocytes and CD4+ T cells during rheumatoid arthritis and systemic lupus erythematosus.

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CD26 Antibody (PA5-32728) in IHC (P)
Immunohistochemical analysis of formalin-fixed paraffin-embedded human placenta using a DPP4/CD26 polyclonal antibody (Product # PA5-32728). Heat-induced antigen retrieval was performed prior to staining.

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