

Mouse Anti-human Collagen IV, Clone 1042, Monoclonal Antibody

Catalog No.	MON4003	Quantity:	1 ml
Description:	This monoclonal antibody reacts exclusively with human collagen type IV. In immunoblots the antibody is exclusively reactive with basal membranes. There is no cross-reactivity with any other collagen types. Antigen isolated from: human placenta. Antigen location: extracellular basement membranes. Positive control: skin, kidney.		
Specificity:	Recognizes human collagen type IV		
Host:	Mouse		
Immunogen:	Human placenta		
Isotype:	IgG _{2b}		
Clone:	1042		
Formulation:	Liquid in a solution of 0.15 M PBS with 1% BSA and 0.02% sodium azide. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
Applications	The extent of expression of the basement membrane component type IV collagen may be correlated with the degree of differentiation of basement membrane producing neoplasms. Neoplastic cells of invasive carcinomas often lack a continuous basement membrane. In diagnostic histopathology antibodies to type IV collagen may help to distinguish between non-invasive (benign or <i>in situ</i>) and invasive lesions. Furthermore, the antibody is important in the differential diagnosis of bullous lesions in dermatopathology.		
	For immunohistochemistry on frozen sections fixation with acetone for 5 min. at -20°C is recommended. Paraffin material should be fixed with neutral formalin. For such tissue sections proteolytic pretreatment with pepsin is recommended. Working dilution: 1:10 - 1:20. (Based on the Indirect method, with a normal ABC method the dilution can be 5-10 times higher, but the optimal dilution should be tested by serial dilution). Dilute immediately before use with PBS.		
	The optimal concentration should be determined by the user for each specific application.		
Storage & Stability:	Store undiluted antibody at 2-4°C until expiration date. For prolonged storage, aliquot antibody and store at -20°C. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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