RD SYSTEMS a biotechne brand

Monoclonal Mouse IgG_{2A} Clone # 382316 Catalog Number: MAB42191

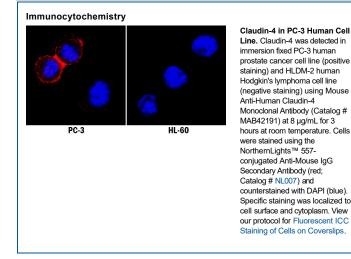
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Claudin-4 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 382316
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human Claudin-4 Met1-Val209 Accession # NP_001296
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below

DATA



PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution. 		

BACKGROUND

Claudin-4 is a multipass membrane protein in the claudin family of tight junction proteins. Claudin-4 is a 209 amino acid molecule with four transmembrane segments. It is preferentially expressed in intestinal mucosa epithelium and is involved in epithelial tissue development. It is also up-regulated in several carcinomas. Phosphorylation of Claudin-4 regulates paracellular epithelial permeability. Human Claudin-4 shares 83% as sequence identity with mouse and rat Claudin-4.

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