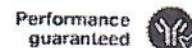


Claudin 4 Monoclonal Antibody (3E2C1)

Catalog Number 32-9400



Product Data Sheet

Details		Species Reactivity	
Size	100 µg	Tested species reactivity	Canine, Human, Rat
Host / Isotype	Mouse IgG1	Published Species Reactivity	Canine, Fish, Human, Mouse, Not Applicable, Non-human primate, Ovine, Porcine, Rabbit, Rat, Virus
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Immunohistochemistry (IHC)	2-3 µg/mL
Clone	3E2C1	Western Blot (WB)	1-3 µg/mL
Immunogen	Synthetic peptide corresponding to a 22 amino acid sequence derived from the C-terminal region of human Claudin-4.	Published Applications	
Conjugate	Unconjugated	Western Blot (WB)	See 93 publications below
Form	Liquid	Immunofluorescence (IF)	See 47 publications below
Concentration	0.5mg/mL	Immunohistochemistry (Paraffin) (IHC (P))	See 35 publications below
Purification	Protein A	Immunohistochemistry (IHC)	See 32 publications below
Storage Buffer	PBS, pH 7.4	Immunocytochemistry (ICC)	See 30 publications below
Contains	0.1% sodium azide	Miscellaneous (Misc)	See 26 publications below
Storage Conditions	-20°C	Immunohistochemistry (Frozen) (IHC (F))	See 9 publications below
		Immunoprecipitation (IP)	See 5 publications below
		Peptide Array (Array)	See 1 publications below

* 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.

Product Specific Information

Reactivity has been confirmed with human, rat ileum homogenates, and canine MDCK cell lysates by western blotting and immunofluorescence. Reactivity has also been confirmed with formalin-fixed, paraffin-embedded (FFPE) human normal colon and colon cancer tissues by immunohistochemistry.

For best results in immunohistochemistry with formalin-fixed, paraffin-embedded (FFPE) tissues, heat induced epitope retrieval (HIER) with citrate buffer, pH 6.0, is required prior to staining.

This antibody reacts specifically with the ~ 22 kDa Claudin-4 protein and does not cross-react with the protein at 55 kDa.

Background/Target Information

CLAUDIN4 is an integral membrane protein belonging to the claudin family, a family of cellular adhesion molecules that are components of tight junctions. CLAUDIN4 is a component of tight junction strands and may play a role in internal organ development and function during pre- and postnatal life. The CLAUDIN4 gene is deleted in Williams-Beuren syndrome, a neurodevelopmental disorder affecting multiple systems. CLAUDIN4 is frequently overexpressed in ovarian and other epithelial cancers.

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