Recombinant Claudin-1 Monoclonal Antibody

catalog number: **AN301492L**

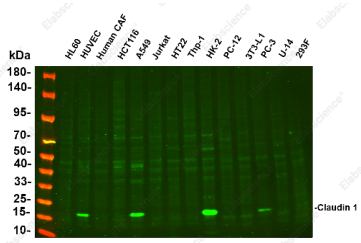
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse;Rat
Immunogen	The specific immunogen used to produce this antibody is proprietary information.
Host	Rabbit
Isotype	Rabbit IgG
Clone	C111115
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:1000-1:5000
IHC	1:200-1:1000
IF	1:200-1:1000
IP	1:50-1:200
ELISA	1:5000-1:20000

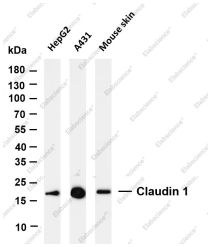
Data



Western blot analysis of HL60, HUVEC, Human CAF, HCT116, A549, Jurkat, HT22, Thp-1, HK-2, PC-12, 3T3-L1, PC-3, U-14 and 293F cell lysates using Claudin-1 Antibody (AN301492L) at a dilution of 1:2500.

Observed-MW:19 kDa

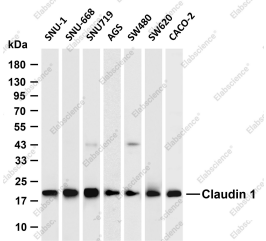
Calculated-MW:22 kDa



Western blot analysis of HepG2, A431 and Mouse skin cell lysates using Claudin-1 Antibody (AN301492L).

Observed-MW:19 kDa

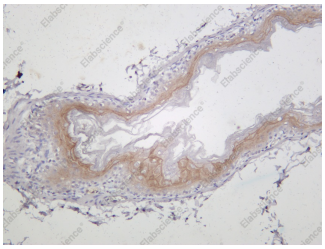
Calculated-MW:22 kDa



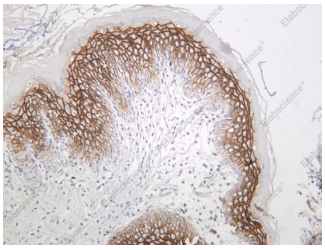
Western blot analysis of SNU-1, SNU-668, SNU719, AGS, SW480, SW620 and CACO-2 cell lysates using Claudin-1 Antibody (AN301492L).

Observed-MW:19 kDa

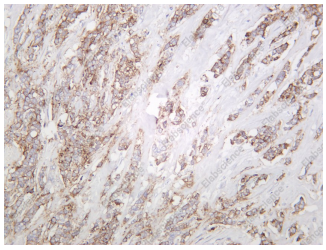
Calculated-MW:22 kDa



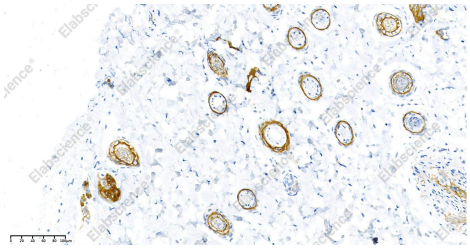
Immunohistochemical analysis of paraffin-embedded Mouse stomach sections using Claudin-1 Antibody (AN301492L).



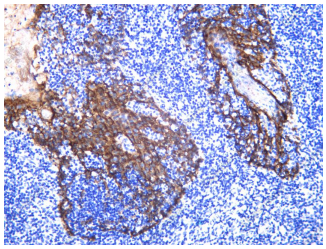
Immunohistochemical analysis of paraffin-embedded Rat stomach sections using Claudin-1 Antibody (AN301492L).



Immunohistochemical analysis of paraffin-embedded Human breast sections using Claudin-1 Antibody (AN301492L).



Immunohistochemical analysis of paraffin-embedded Mouse mammary gland sections using Claudin-1 Antibody (AN301492L).



Immunohistochemical analysis of paraffin-embedded Human tonsil sections using Claudin-1 Antibody (AN301492L).

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

Claudins function as major constituents of the tight junction complexes that regulate the permeability of epithelia. While some claudin family members play essential roles in the formation of impermeable barriers, others mediate the permeability to ions and small molecules. Often, several claudin family members are coexpressed and interact with each other, and this determines the overall permeability. CLDN1 is required to prevent the paracellular diffusion of small molecules through tight junctions in the epidermis and is required for the normal barrier function of the skin. Required for normal water homeostasis and to prevent excessive water loss through the skin, probably via an indirect effect on the expression levels of other proteins, since CLDN1 itself seems to be dispensable for water barrier formation in keratinocyte tight junctions.