

Product datasheet

anti-Cingulin guinea pig polyclonal, serum

Short overview

Cat. No.	GP26
Quantity	100 µl

Product description

Host	Guinea pig
Antibody Type	Polyclonal
Immunogen	Full length GST-fusion protein of human cingulin
Formulation	Contains 0.09% sodium azide and 0.5% BSA
UniprotID	P23805 (Bovine),Q9P2M7 (Human),P59242 (Mouse),B7NZD9 (Rabbit)
Synonym	Cingulin, CGN, KIAA1319
Note	Centrifuge prior to opening
Conjugate	Unconjugated
Purification	Stabilized antiserum
Storage	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
Intended use	Research use only
Application	ICC/IF, IHC, WB
Reactivity	Bovine, Human, Mouse, Rabbit

Applications

Immunocytochemistry (ICC)	1:100 (initial fixation with formaldehyde recommended for optimal staining)
Immunohistochemistry (IHC) - frozen	assay dependent
Immunohistochemistry (IHC) - paraffin	Assay dependent (microwave treatment recommended)
Western Blot (WB)	Assay dependent

Background

The antibody reacts specifically with cingulin (a ca.150 kD polypeptide) present in tight junctions (zonula occludens) of polar epithelia (e.g. colon, duodenum, kidney, liver, pancreas) of transitional epithelia (e.g. bladder epithelium) and of stratified epithelia (e.g. skin, foot sole, tongue, oesophagus, vagina). It is negative with endothelia of vessels and capillaries (e.g. in heart and brain).

Polypeptide reacting: Cingulin, a polypeptide of 126.5 kD (calculated from aa sequence data); apparent Mr 150 kD (after SDS-PAGE); pI 6.5 (very similar to that of symplekin, another junctional protein).

Reactivity on cultured cell lines: Carcinoma cell lines of human(e.g. MCF-7, Caco-2, PLC, A-431), bovine (MDBK, BMGE) and canine (MDCK) origin.

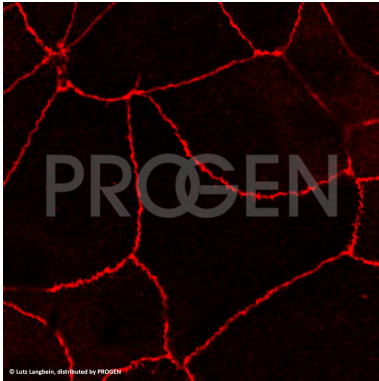
Positive control: total cell lysate of e.g. CaCo-2 cells.

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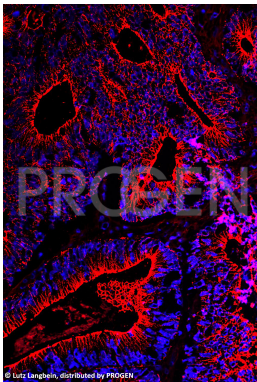
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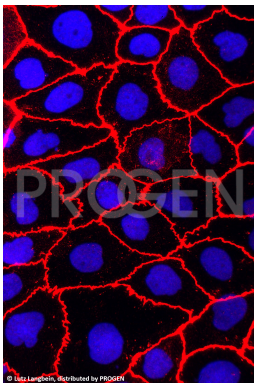
Product images



Human mammary carcinoma cells (courtesy of L. Langbein)



Human colon carcinoma (courtesy of L. Langbein)



CaCo colon carcinoma cells (courtesy of L. Langbein)

References

Publication	Species	Application
Walter, B., Schlechter, T., Hergt, M., Berger, I. & Hofmann, I. Differential expression pattern of protein ARVCF in nephron segments of human and mouse kidney. Histochem. Cell Biol. 130, 943â€“956 (2008).	human	IHC (frozen)
Jennemann, R. et al. Integrity and Barrier Function of the Epidermis Critically Depend on Glucosylceramide Synthesis. J. Biol. Chem. 282, 3083â€“3094 (2006).	mouse	IHC (paraffin)