

## Product datasheet

### anti-Cingulin mouse monoclonal, 139.3.4, supernatant

#### Short overview

<b>Cat. No.</b>	651122
<b>Quantity</b>	5 ml

#### Product description

<b>Host</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Isotype</b>	IgM
<b>Clone</b>	139.3.4
<b>Immunogen</b>	Synthetic peptide (aa. 4-24)
<b>Formulation</b>	Contains 0.09% sodium azide
<b>UniproID</b>	P23805 (Bovine),Q9P2M7 (Human),P59242 (Mouse)
<b>Synonym</b>	Cingulin, CGN, KIAA1319
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Hybridoma cell culture supernatant
<b>Storage</b>	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
<b>Intended use</b>	Research use only
<b>Application</b>	ICC/IF, IHC, WB
<b>Reactivity</b>	Bovine, Human, Mouse
<b>No reactivity</b>	Rabbit

#### Applications

<b>Immunocytochemistry (ICC)</b>	Assay dependent
<b>Immunohistochemistry (IHC) - frozen</b>	Ready-to-use
<b>Immunohistochemistry (IHC) - paraffin</b>	Ready-to-use (microwave treatment recommended)
<b>Western Blot (WB)</b>	Assay dependent

#### Background

The mab reacts specifically with cingulin (a 150 kDa 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). Negative with endothelia of vessels and capillaries (e.g. in heart and brain).

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

Reactivity on cultured cell lines: Carcinoma cell lines (e.g. MCF-7, Caco-2, PLC, A-431), SV80 (fibroblasts), Glioma; MDBK, MDCK, BMGE.

## Product images



anti-Cingulin mouse monoclonal, 139.3.4, supernatant

## References

Publication	Species	Application
<a href="#">Langbein, L. et al. Tight junction-related structures in the absence of a lumen: occludin, claudins and tight junction plaque proteins in densely packed cell formations of stratified epithelia and squamous cell carcinomas. Eur. J. Cell Biol. 82, 385â€“40</a>	human	IHC (frozen)
<a href="#">Bennett, M. K., Calakos, N., Kreiner, T. &amp; Scheller, R. H. Synaptic Vesicle Membrane Proteins Interact to Form a Multimeric Complex. J. Cell Biol. 116, 761â€“775 (1992).</a>	rat	WB
<a href="#">Gould, V. E. et al. Synaptophysin Expression in Neuroendocrine Neoplasms as Determined by Immunocytochemistry. Am. J. Pathol. 126, 243â€“257 (1987).</a>	human	IHC (frozen)