

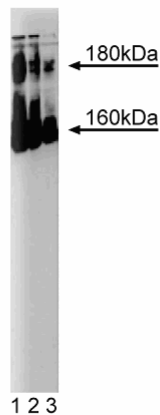
Technical Data Sheet

Purified Mouse Anti-Janusin**Product Information**

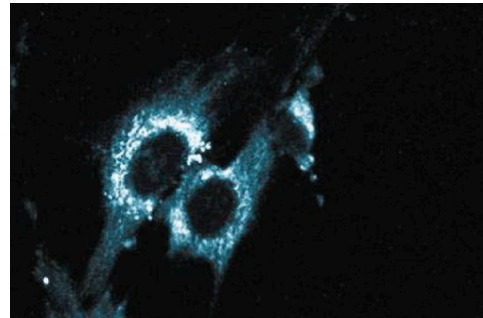
Material Number:	610629
Alternate Name:	Tenascin-R
Size:	50 µg
Concentration:	250 µg/ml
Clone:	9/Janusin
Immunogen:	Human Janusin aa. 24-198
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Rat Tested in Development: Mouse, Human
Target MW:	180 & 160 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Originally identified as the oligodendrocyte-specific glycoprotein J1-160/180, Janusin is a protein of 1356 amino acids found exclusively in the nervous system. It belongs to the family of extracellular matrix proteins that is similar to Tenascin. These proteins are important in maintaining the interactions between neurons and glial cells. The two different molecular sizes of Janusin result from alternative splicing of its mRNA. Although Tenascin is widely expressed, Janusin's mRNA expression peaks shortly after birth and is highest in the cerebellum, olfactory bulb, and hippocampus. Like Tenascin, Janusin has a fibrinogen-like domain, nine fibronectin type III domains, four epidermal growth factor-like repeats, and an amino terminal cystein-rich region.



Western blot analysis of Janusin on a rat cerebrum lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti-Janusin antibody.



Immunofluorescence staining of WI-38 cells (Human lung fibroblasts; ATCC CCL-75).

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20°C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunoprecipitation	Not Recommended
Immunohistochemistry	Not Recommended

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611463	Rat Cerebrum Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Fuss B, Wintergerst ES, Bartsch U, Schachner M. Molecular characterization and in situ mRNA localization of the neural recognition molecule J1-160/180: a modular structure similar to tenascin. *J Cell Biol.* 1993; 120(5):1237-1249.(Biology)