

## Technical Data Sheet

## Purified Mouse Anti-Contactin

## Product Information

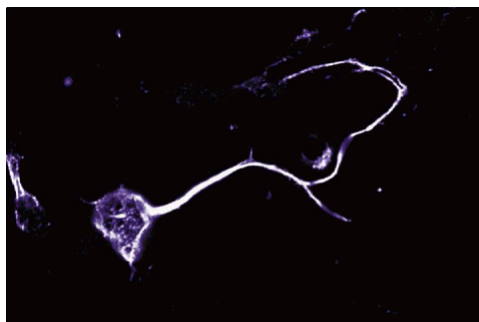
<b>Material Number:</b>	<b>610578</b>
<b>Size:</b>	50 µg
<b>Concentration:</b>	250 µg/ml
<b>Clone:</b>	41/Contactin
<b>Immunogen:</b>	Human Contactin aa. 77-238
<b>Isotype:</b>	Mouse IgG1
<b>Reactivity:</b>	QC Testing: Human Tested in Development: Rat, Mouse
<b>Target MW:</b>	135 kDa
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

## Description

Contactin (Gp135), the human homologue of chicken F11 and mouse F3 proteins, is a neuronal cell adhesion protein of the Ig superfamily. The contactin gene encodes two different isoforms: Contactin 1 (1018 amino acids; 998 aa after signal sequence cleavage) and Contactin 2 which lacks the first 11 amino acids of the mature Contactin 1 protein. Contactin is spatially expressed and has been implicated in guiding axons in developing embryos. As is typical of an Ig-type protein, the extracellular region of contactin contains six Ig domains followed by four FNIII (fibronectin type III) repeats. Contactin is released from membranes after treatment with a PI-PLC phospholipase, indicating that the membrane attachment of contactin is through GPI.



**Western blot analysis of Contactin on SKN lysate.**  
Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution.



**Immunofluorescence staining of Rat Neurons**

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20°C.

## Application Notes

## Application

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

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## Suggested Companion Products

Catalog Number	Name	Size	Clone
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](http://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

Berglund EO, Ranscht B. Molecular cloning and in situ localization of the human contactin gene (CNTN1) on chromosome 12q11-q12. *Genomics*. 1994; 21(3):571-582.(Biology)