Technical Data Sheet

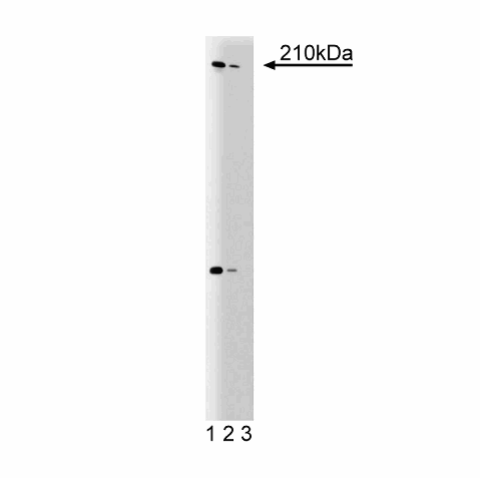
Purified Mouse Anti-GMAP-210

Product Information

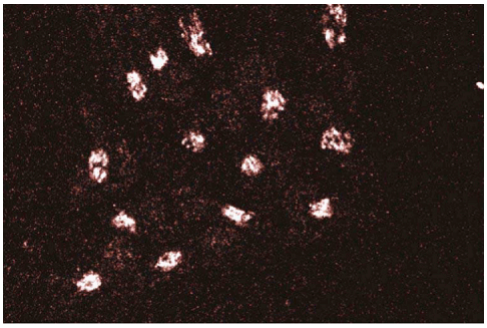
Material Number:	**611712**
Alternate Name:	Trip230
Size:	50 µg
Concentration:	250 µg/ml
Clone:	15/GMAP-210
Immunogen:	Human GMAP-210 aa. 159-365
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human
Target MW:	210 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Trip230 was identified as a protein that interacts with retinoblastoma protein (Rb) and the thyroid hormone receptor (TR). The structure of Trip230 includes five coiled-coil segments separated by non-helical linkers, N-terminal and C-terminal leucine zipper domains, and multiple phosphorylation sites. Trip230 is ubiquitously expressed and localized to the Golgi. During cell cycle progression, a significant portion of Trip230 translocates to the nucleus. In addition, activation of TR with thyroid hormone (T3) leads to phosphorylation of Trip230, as well as Trip230 translocation from the Golgi to the nucleus. Interestingly, Trip230 has also been identified as a Golgi microtubule-associated protein of 210 kDa (GMAP-210). In vitro , GMAP-210 can bind to the minus end of α-tubulin and γ-tubulin via its C-terminal region, while the N-terminal region is involved in Golgi binding. Overexpression of GMAP-210 leads to enlargement of the Golgi apparatus and alterations in the microtubule cytoskeleton. Thus, GMAP-210/Trip230 is thought to function both as a TR coactivator and as a microtubule-binding protein that anchors the Golgi to the microtubule cytoskeleton.



Western blot analysis of GMAP-210 on Jurkat lysate. *Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-GMAP-210.*



Immunofluorescent staining of HeLa cells with *anti-GMAP-210.*

Preparation and Storage

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

BD Biosciences

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

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
611451	Jurkat Cell 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

Chang KH, Chen Y, Chen TT. A thyroid hormone receptor coactivator negatively regulated by the retinoblastoma protein. *Proc Natl Acad Sci U S A.* 1997; 94(17):9040-9045.(Biology)

Chen Y, Chen PL, Chen CF, Sharp ZD, Lee WH. Thyroid hormone, T3-dependent phosphorylation and translocation of Trip230 from the Golgi complex to the nucleus. *Proc Natl Acad Sci U S A.* 1999; 96(8):4443-4448.(Biology)

Infante C, Ramos-Morales F, Fedriani C, Bornens M, Rios RM. GMAP-210, A cis-Golgi network-associated protein, is a minus end microtubule-binding protein. *J Cell Biol.* 199; 145(1):83-98.(Biology)