OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA810977M

GDI1 Mouse Monoclonal Antibody [Clone ID: OTI1B1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1B1
Applications:	IHC, Simple Western, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:10000, Simple Western 1:20-1:50
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human GDI1 (NP_001484) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	50.4 kDa
Gene Name:	GDP dissociation inhibitor 1
Database Link:	NP_001484 Entrez Gene 14567 MouseEntrez Gene 25183 RatEntrez Gene 2664 Human P31150
Background:	GDP dissociation inhibitors are proteins that regulate the GDP-GTP exchange reaction of members of the rab family, small GTP-binding proteins of the ras superfamily, that are involved in vesicular trafficking of molecules between cellular organelles. GDIs slow the rate of dissociation of GDP from rab proteins and release GDP from membrane-bound rabs. GDI1 is expressed primarily in neural and sensory tissues. Mutations in GDI1 have been linked to X-linked nonspecific mental retardation. [provided by RefSeq, Jul 2008]

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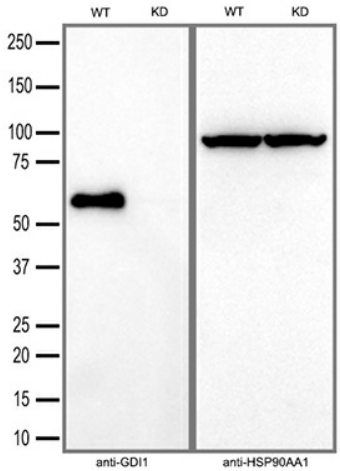
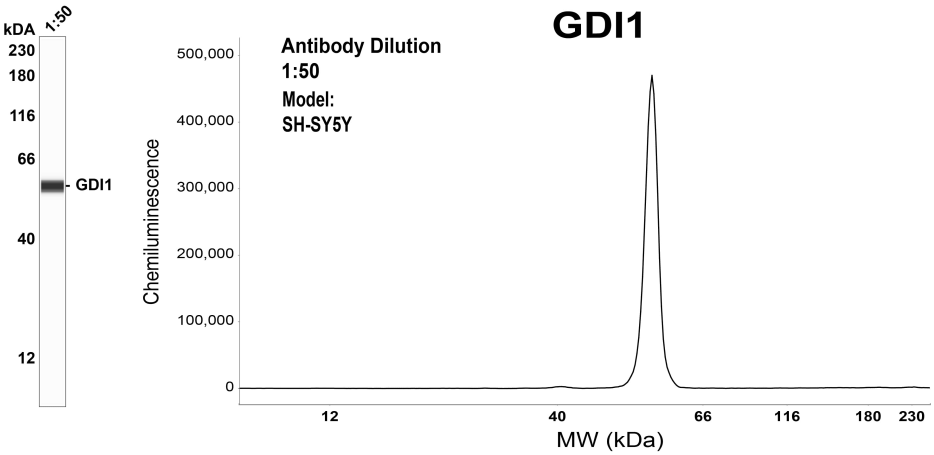
Synonyms: 1A; GDIL; MRX41; MRX48; OPHN2; RABGD1A; RABGDIA; XAP-4

Protein Families: Druggable Genome

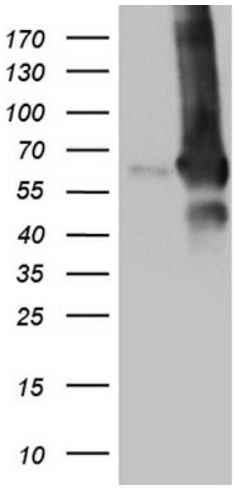
Product images:



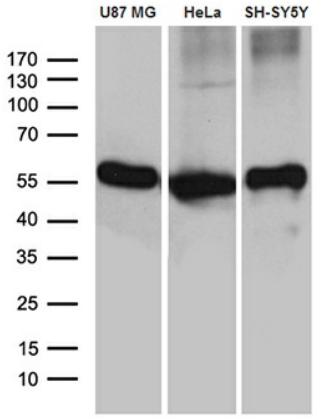
Equivalent amounts of cell lysates (30 ug per lane) of wild-type HeLa cells (WT) and GDI1-Knockdown HeLa cells (KD) were separated by SDS-PAGE and immunoblotted with anti-GDI1 monoclonal antibody [TA810977] (1:2500). Then the blotted membrane was stripped and reprobed with anti-HSP90AA1 antibody as a loading control.



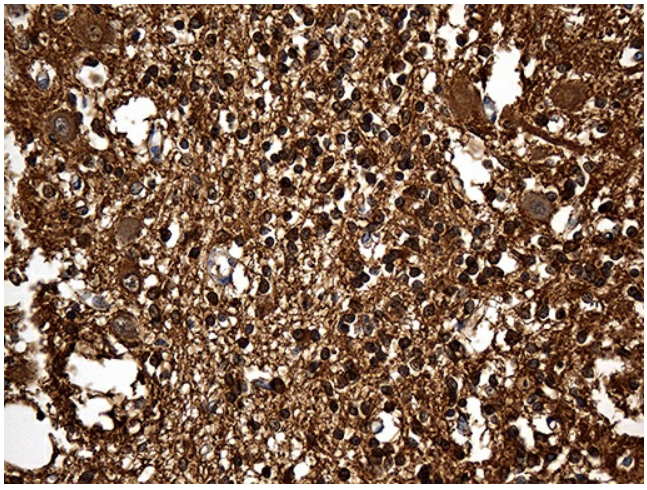
Simple Western™ analysis of endogenous protein GDI1 from SH-SY5Y lysates (0.1mg/mL) using GDI1 Mouse Monoclonal Antibody #[TA810977]. The virtual lane view (left) shows the target (as indicated) at a 1:50 dilution of primary antibody. The corresponding electropherogram view (right) plots chemiluminescence by molecular weight along the capillary at a 1:50 dilution of primary antibody. This experiment was performed under reducing conditions on the Jess™ Simple Western instrument from ProteinSimple, a Bio-Techne brand, using the 12–230 kDa Separation Module.



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GDI1 ([RC203824], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GDI1. Positive lysates [LY419896] (100ug) and [LC419896] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 3 cell lines by using anti-GDI1 monoclonal antibody (1:500).



Immunohistochemical staining of paraffin-embedded Human embryonic cerebellum within the normal limits using anti-GDI1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.