

GS28 Monoclonal Antibody (HFD9)

Product Specifications

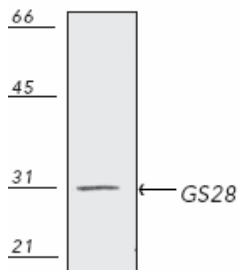
Catalog Number:	VAM-PT047
Host:	Mouse
Isotype:	IgG ₁
Species Reactivity:	Mouse, rat, bovine, canine, chicken, hamster, pig, rabbit, and sheep Other species not tested
Applications: <i>The optimal dilution for a specific application must be determined by the investigator</i>	WB: 1:1,000 (ECL) Other applications not tested
Predicted m.w:	~28 kDa
Concentration:	See product label
Purification:	Protein G Affinity
Format:	PBS, pH 7.2, 0.09% azide, 50% glycerol
Storage: <i>Shipping conditions may differ from the recommended storage temperature</i>	Store at -20°C
Immunogen:	Rat liver Golgi-enriched membranes ¹
Related Products:	
LYT-RB100	Rat Brain Tissue Extract
LYT-MB100	Mouse Brain Tissue Extract
SAB-100	Goat anti-Mouse IgG(Fab) Polyclonal Antibody, HRP Conjugate
VAM-PT046	Membrin Monoclonal Antibody (4HAD6)
VAM-SV013	Syntaxin Monoclonal Antibody (SP6)
VAA-PT048	KDEL Receptor Monoclonal Antibody (KR-10)

Background:

GS28, also known as p28 or GOS28, is a 28 kDa integral membrane protein on the surface of the Golgi apparatus that serves as a t-SNARE in ER to Golgi transport². The amino-terminal of GS28/GOS28 is exposed to the cytosol and anchored to the cis Golgi via a 20 amino acid carboxyl-terminal hydrophobic tail². GS28 co-immunoprecipitates complexes consisting of syntaxin 5, rbet1, membrin, rsec22, and rsly1, and is therefore implicated in ER-to-Golgi or intra-Golgi vesicle transport³. ATP hydrolysis by NSF in the presence of α -SNAP causes the dissociation of GOS28 and syntaxin 5 complex³.

References:

1. Subramaniam, V.N., *et al.* (1995) J Cell Science **108**, 2405-2414.
2. Subramaniam, V.N., *et al.* (1996) Science **272**, 1161-1163.
3. Hay, J., *et al.* (1997) Cell **89**, 149-158.
4. Espenshade, P.J., *et al.* (2002) PNAS USA **99**, 11694-11699.



Western blot analysis of pig kidney ESK-4 cell lysate, probed with GS28 Monoclonal Antibody (HFD9)

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5777 Hines Drive • Ann Arbor, MI • 48108 | Tel: 800-833-8651 or 800-668-6113 | Fax: 734-668-2793
www.assaydesigns.com | orders@assaydesigns.com | technical@assaydesigns.com

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