

GM130 Rabbit pAb

Catalog # AP96445

Product Information

Application	WB
Reactivity	Human
Predicted	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	113 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse GM130
Epitope Specificity	231-330/999
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the GOLGA2 family.
SUBUNIT	Part of a larger oligomeric complex. Interacts with p115. Interacts with RAB1B that has been activated by GTP-binding. Interacts with GORASP1/GRASP65 and ZFPL1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The docking of transport vesicles to their target membrane is mediated by p115. GM130, a cis-Golgi matrix protein, interacts specifically with p115 and provides a membrane docking site. Both GM130 and p115 are involved in vesicle tethering to Golgi membranes. The amino-terminus of GM130 binds to p115, whereas the carboxy-terminus binds to Golgi membranes. Both Giantin and GM130 compete for binding to p115. Thus, p115-Giantin and p115-GM130 interactions might mediate independent membrane tethering events. Transport from the ER to the cis/medial Golgi compartments requires the action of p115, GM130 and Giantin via a sequential rather than a coordinate mechanism. Mitotic phosphorylation of GM130 at Serine 25 is mediated by Cdc2, prevents binding to p115 and is directly involved in mitotic Golgi fragmentation. GM130 is phosphorylated in prophase as the Golgi complex starts to break down, and remains phosphorylated in metaphase and anaphase. In telophase, GM130 is dephosphorylated by PP2A as the Golgi fragments start to reassemble.

Additional Information

Other Names	GOGA2_HUMAN; GOLGA2; 130 kDa cis-Golgi matrix protein (GM130); GM130 autoantigen; Golgin-95; golgin A2; golgi autoantigen, golgin subfamily a, 2; Golgi matrix protein GM130; SY11 protein
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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Function Golgi auto-antigen; probably involved in maintaining cis-Golgi structure.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.