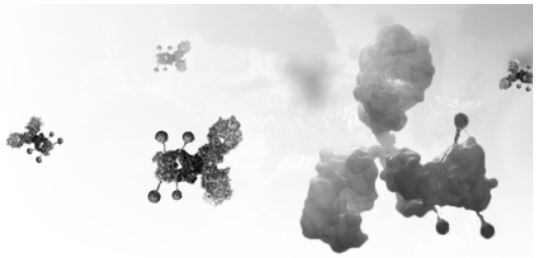

Mouse anti-Rat p115 monoclonal antibody, clone 26/q226 (CABT-B9253)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Rat p115 aa. 843-955
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Rat, Mouse
Clone	26/q226
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IF
Format	Liquid
Concentration	250 μg/ml
Size	50 μg, 150 μg
Buffer	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction	Maturation and post translational modification of proteins occurs after their biosynthesis at the

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endoplasmic reticulum and their transport through the Golgi apparatus. The process involves the transport of vesicles carrying the proteins through a vectorial process of vesicle budding and fusion from the cis-compartment to the medial-compartment and the trans-compartment of the Golgi apparatus. p115 is a 959 amino acid protein located at the Golgi apparatus that, with the NEM-sensitive fusion protein and the soluble NSF attachment protein (SNAP), is required for vesicle transport from the cis-compartment to the medial-compartment. p115 protein is related to the yeast Uso1p essential for the vesicular transport from the endoplasmic reticulum to the Golgi. Native p115 appears to be a homo-oligomer, with two globular heads and a tail that resemble the overall structure of myosin. p115 is extracted from the Golgi apparatus with high salt or high pH, indicative of a membrane associated protein. p115 interacts with the golgi matrix protein GM130 but this interaction is disrupted by the Golgi fragmentation during mitosis and the phosphorylation of GM130.

Keywords ARHGAP4; Rho GTPase activating protein 4; rho GTPase-activating protein 4; ARHGAP 4; C1; KIAA0131; OTTHUMP00000026004; p115; RGC 1; RGC1; Rho GAP hematopoietic protein C1; Rho GAP hematopoietic protein C1; Rho GTPase activating protein 4; Rho type GTPase

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