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[Primary Antibody]

Rabbit Anti-RND2/Rho7 antibody

Catalog Number: SL11583R

FOR RESEARCH USE ONLY

[DATASHEET]

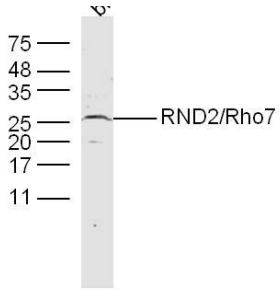
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	RND2/Rho7
Immunogen:	KLH conjugated synthetic peptide derived from human RND2: 1-80/227
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, (predicted: Human, Rat, Dog, Pig, Cow, Horse, Rabbit, Sheep)
Predicted MW.:	25kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	The Ras p21 family of guanine nucleotide proteins has been widely studied in view of its apparent role in signal transduction pathways and high frequency of mutations in human malignancies. It is now clear, however, that the Ras proteins (H-, K- and N-Ras p21) are members of a much larger superfamily of related proteins. Six members of this family, Rap 1A, Rap 1B, Rap 2, R-Ras, Ral A and Ral B, exhibit approximately 50% amino acid homology to Ras. The six mammalian Rho proteins (Rho A, B, C, G, 7 and 8) are approximately 30% homologous to Ras and are expressed in a wide range of cell types. Both Ras p21 and Rho p21, as well as other members of the Ras superfamily, contain a carboxy-terminal CAAX sequence (C, cysteine; A, aliphatic amino acid; X, any amino acid) which in the case of Ras has been shown to be essential for correct localization and function. **Function:** May be specifically involved in neuronal and hepatic functions. Is a C3 toxin-insensitive member of the Rho subfamily. **Subunit:** Interacts with the Rho-GAP domain of RACGAP1. Interacts with

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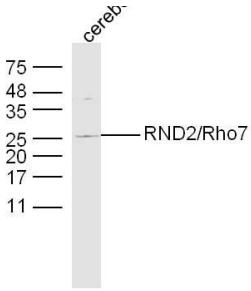
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	UBXD5. **Subcellular Location:** Cytoplasmic vesicle, secretory vesicle, acrosome membrane; Lipid-anchor; Cytoplasmic side (Potential). Note=Colocalizes with RACGAP1 in Golgi-derived proacrosomal vesicles and the acrosome. **Tissue Specificity:** Highly expressed in testis. **Similarity:** Belongs to the small GTPase superfamily. Rho family. **Database links:** **Entrez Gene:** 8153 Human **Entrez Gene:** 11858 Mouse **Entrez Gene:** 303553 Rat Omim: 601555 Human **SwissProt:** P52198 Human **SwissProt:** Q9QYM5 Mouse **Unigene:** 603111 Human **Unigene:** 378883 Mouse **Unigene:** 22162 Rat

[VALIDATION IMAGES]



Sample: Brain (Mouse) Lysate at 40 ug
Primary: Anti-RND2/Rho7 (SL11583R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 25 kD
Observed band size: 26 kD



Sample: Cerebellum (Mouse) Lysate at 40 ug
Primary: Anti-RND2/Rho7 (SL11583R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 25 kD
Observed band size: 26 kD

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