Anti-RND3 Antibody

EM1707-72

Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-cell, IHC-P, FC
Molecular Wt:	27 kDa

Description: 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.

Immunogen: Recombinant protein

Positive control: Human RND3 recombinant protein, RND3-hIgGFc transfected HEK293 cell lysate, Hela, human bladder cancer tissue.

Subcellular location: Golgi apparatus membrane.

Database links: SwissProt: P61587 Human

Recommended Dilutions:

WB	1:500-1:2,000
IF-cell	1:50-1:200
IHC-P	1:50-1:200
FC	1:100-1:200

Storage Buffer: Purified antibody in PBS with 0.05% sodium azide.

Storage Instruction: 4℃; -20℃ for long term storage.

Purity: Protein A affinity purified.

Images

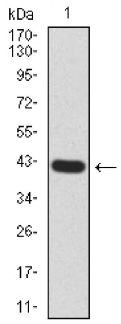

Fig1: Western blot analysis of RND3 on human RND3 recombinant protein using anti-RND3 antibody at 1/1,000 dilution.

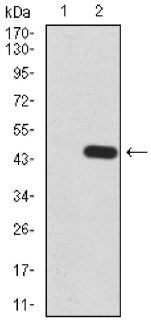

Fig2: Western blot analysis of RND3 on HEK293 (1) and RND3-hIgGFc transfected HEK293 (2) cell lysate using anti-RND3 antibody at 1/1,000 dilution.

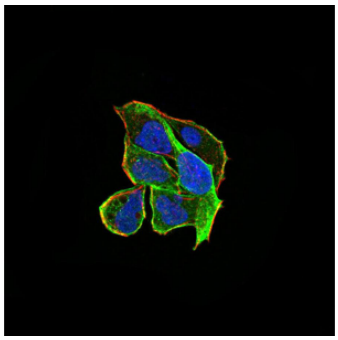

Fig3: ICC staining RND3 (green) and Actin filaments (red) in Hela cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

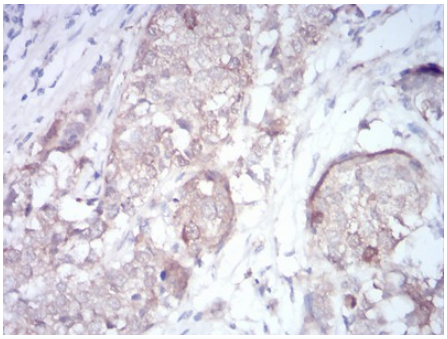

Fig4: Immunohistochemical analysis of paraffin-embedded human bladder cancer tissue using anti-RND3 antibody. Counter stained with hematoxylin.

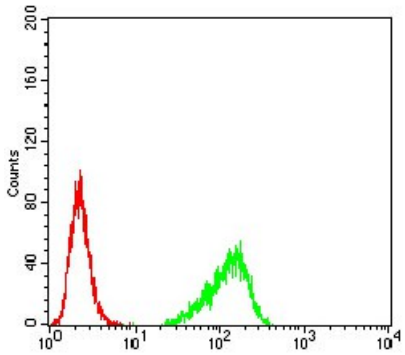

Fig5: Flow cytometric analysis of Hela cells with RND3 antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; red).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Pacary E et al. Rnd3 coordinates early steps of cortical neurogenesis through actin-dependent and -independent mechanisms. Nat Commun 4:1635 (2013).
2. Pacary E et al. Proneural transcription factors regulate different steps of cortical neuron migration through Rnd-mediated inhibition of RhoA signaling. Neuron 69:1069-84 (2011).