Product datasheet

Anti-EPAC1/RAPGEF3 Antibody

Catalog Number: *A02483-3*

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.
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Basic Information

Product Name	Anti-EPAC1/RAPGEF3 Antibody
Gene Name	RAPGEF3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, monkey
Tested Application	WB, IHC, ICC/IF, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Epac1/RAPGEF3 recombinant protein (Position: H49-R881).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	104 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Rap guanine nucleotide exchange factor 3 also known as exchange factor directly activated by cAMP 1 (EPAC1) or cAMP-regulated guanine nucleotide exchange factor I (cAMP-GEFI) is a protein that in humans is encoded by the RAPGEF3 gene. As the name suggests, EPAC proteins (EPAC1 and EPAC2) are a family of intracellular sensors for cAMP, and function as nucleotide exchange factors for the Rap subfamily of RAS-like small GTPases.

Reference

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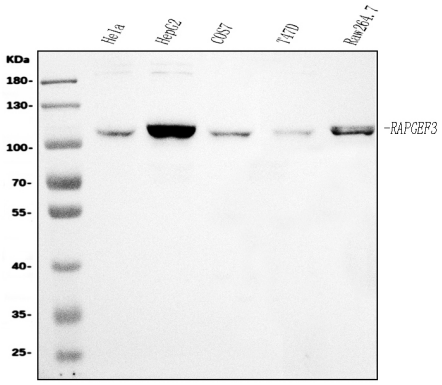
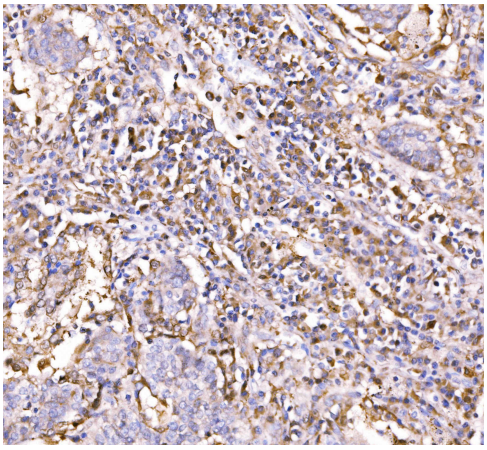
Anti-EPAC1/RAPGEF3 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of EPAC1/RAPGEF3 using anti-EPAC1/RAPGEF3 antibody (A02483-3). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: Hela whole cell lysates,
Lane 2: HepG2 whole cell lysates,
Lane 3: COS7 whole cell lysates,
Lane 4: T47D whole cell lysates,
Lane 5: RAW264.7 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-EPAC1/RAPGEF3 antigen affinity purified polyclonal antibody (A02483-3) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for EPAC1/RAPGEF3 at approximately 104 kDa. The expected band size for EPAC1/RAPGEF3 is at 104 kDa.



IHC analysis of EPAC1/RAPGEF3 using anti-EPAC1/RAPGEF3 antibody (A02483-3).
EPAC1/RAPGEF3 was detected in a paraffin-embedded section of human lung cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-EPAC1/RAPGEF3 Antibody (A02483-3) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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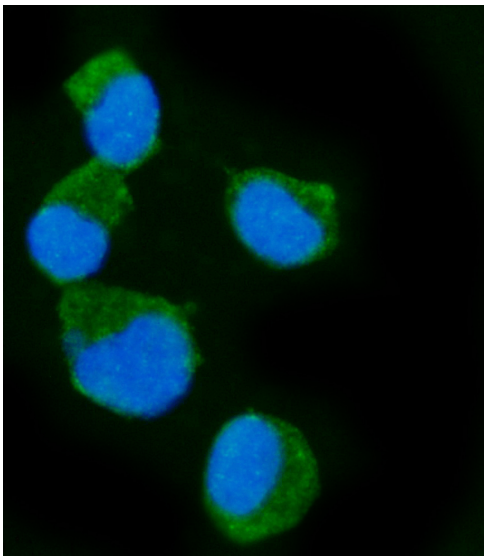
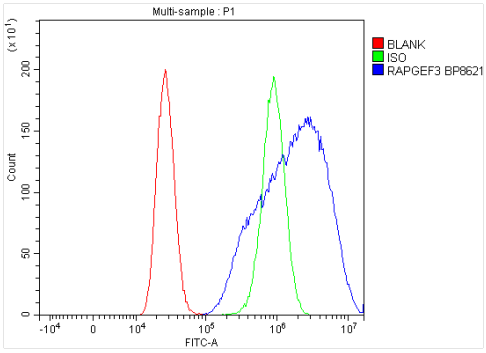


ICC/IF analysis of EPAC1/RAPGEF3 using anti-EPAC1/RAPGEF3 antibody (A02483-3).
EPAC1/RAPGEF3 was detected in an immunocytochemical section of T-47D cells. The section was incubated with rabbit anti-EPAC1/RAPGEF3 Antibody (A02483-3) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of MCF-7 cells using anti-EPAC1/RAPGEF3 antibody (A02483-3).
Overlay histogram showing MCF-7 cells stained with A02483-3 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-EPAC1/RAPGEF3 Antibody (A02483-3) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.