

## RAP1GAP Monoclonal Antibody

### Description

<b>Product type</b>	Antibody
<b>Code</b>	BT-MCA3461
<b>Host</b>	Mouse
<b>Isotype</b>	Mouse IgG2b
<b>Size</b>	100µL, 50µL
<b>Immunogen</b>	Purified recombinant fragment of human RAP1GAP (AA: 412-660) expressed in E. Coli.
<b>Mol wt</b>	73.4kDa
<b>Species reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Recommended application</b>	FCM
<b>Concentration</b>	N/A
<b>Full name</b>	N/A
<b>Synonyms</b>	RAPGAP;RAP1GA1;RAP1GAP1;RAP1GAPII

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

This gene encodes a type of GTPase-activating-protein (GAP) that down-regulates the activity of the ras-related RAP1 protein. RAP1 acts as a molecular switch by cycling between an inactive GDP-bound form and an active GTP-bound form. The product of this gene, RAP1GAP, promotes the hydrolysis of bound GTP and hence returns RAP1 to the inactive state whereas other proteins, guanine nucleotide exchange factors (GEFs), act as RAP1 activators by facilitating the conversion of RAP1 from the GDP- to the GTP-bound form. In general, ras subfamily proteins, such as RAP1, play key roles in receptor-linked signaling pathways that control cell growth and differentiation. RAP1 plays a role in diverse processes such as cell proliferation, adhesion, differentiation, and embryogenesis. Alternative splicing results in multiple transcript variants encoding distinct proteins.

### Recommended Dilution

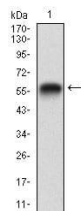
WB: 1:500 - 1:2000

FCM: 1:200 - 1:400

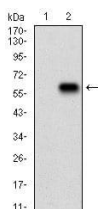
ELISA: 1:10000

Not yet tested in other applications.

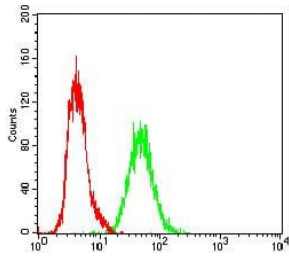
### Images



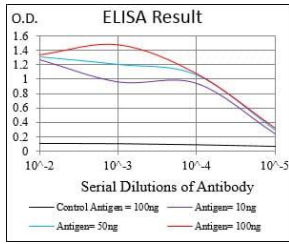
Western blot analysis using RAP1GAP mAb against human RAP1GAP (AA: 412-678) recombinant protein. (Expected MW is 53.9 kDa)



Western blot analysis using RAP1GAP mAb against HEK293 (1) and RAP1GAP (AA: 412-678)-hIgGFc transfected HEK293 (2) cell lysate.



Flow cytometric analysis of A431 cells using RAP1GAP mouse mAb (green) and negative control (red).



Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);

### Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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