

BAP31 Monoclonal Antibody (CC-1)

Product Details

Size	100 µL
Species Reactivity	Bovine, Hamster, Human, Mouse, Non-human primate
Published Species	Non-human primate, Human, Mouse
Host/Isotope	Rat / IgG2a
Class	Monoclonal
Type	Antibody
Clone	CC-1
Conjugate	Unconjugated
Immunogen	Amino acid residues 230-246 of BAP31 protein.
Form	Liquid
Storage buffer	ascites
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325095

Applications	Tested	Dilution	Published
Immunocytochemistry (ICC)	✓	1:200-1:1000	1 Publication
Immunofluorescence (IF)	✓	1:200-1:1000	1 Publication
Western Blot (WB)	✓	1:1,500-1:6,000	1 Publication
Immunoprecipitation (IP)	✓	Assay dependent	1 Publication
ELISA (ELISA)	✓	Assay dependent	
Immunohistochemistry (Frozen) (IHC (F))	✓	1/1000 - 1/10000	

Product Specific Information

MA3-002 detects BAP31 from human, non-human primate, bovine, mouse and hamster samples.

MA3-002 has been successfully used in Western blot, ELISA, immunoprecipitation, immunofluorescent, and immunohistochemical procedures. By Western blot, this antibody detects a 28-kDa protein corresponding to human BAP31.

The MA3-002 antigen is solubilized protein from human neuroendocrine cell line IMR-32 corresponding to the C-terminal region residues 230-246 of BAP31 protein. This sequence is conserved in non-human primate, bovine and hamster species.

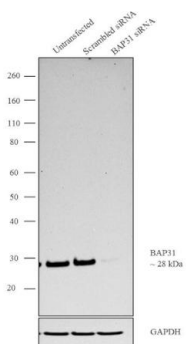


Fig. a

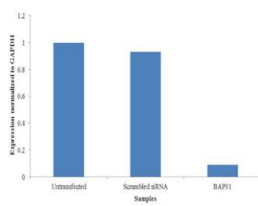


Fig. b

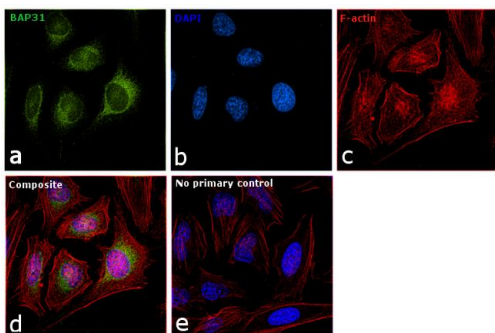
BAP31 Antibody (MA3-002)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with BAP31 siRNA and reduction of signal was observed in Western Blot using BAP31 Monoclonal Antibody (Product # MA3-002). KnockDown validation info.

Product Images For BAP31 Monoclonal Antibody (CC-1)

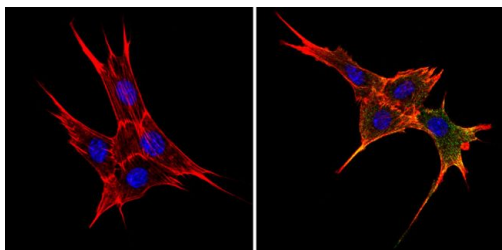
BAP31 Antibody (MA3-002) in IF

Immunofluorescence analysis of BAP31 was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with BAP31 Monoclonal Antibody (Product # MA3-002) at 1:200 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Rat IgG (H+L) Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A-11006) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1: 300). Panel d represents the merged image showing localization in endoplasmic reticulum, golgi and mitochondria. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



BAP31 Antibody (MA3-002) in IF

Immunofluorescent analysis of BAP31 (green) showing staining in the cytoplasm of NIH-3T3 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a BAP31 monoclonal antibody (Product # MA3-002) in 3% BSA-PBS at a dilution of 1:200 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. Actin was stained using Alexa Fluor 554 (red) and nuclei were stained with Hoechst or DAPI (blue). Images were taken at a magnification of 60x.



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4 References

Immunocytochemistry (1)

PLoS pathogens

A Non-enveloped Virus Hijacks Host Disaggregation Machinery to Translocate across the Endoplasmic Reticulum Membrane.

"MA3-002 was used in immunocytochemistry to discover that Hsp105 cooperates with Hsc70 to facilitate virus entry"

Authors: Ravindran MS, Bagchi P, Inoue T, Tsai B

Species

Human
Non-human primate
Not Applicable

Dilution

Not Cited
Not Cited
1:500

Year

2015

Immunofluorescence (1)

PLoS pathogens

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Dilution

Not Cited
Not Cited
1:500

Year

2015

Western Blot (1)

Journal of cell science

MUC1 regulates nuclear localization and function of the epidermal growth factor receptor.

"MA3-002 was used in western blot to investigate the regulation of EGFR by MUC1"

Authors: Bitler BG, Goverdhan A, Schroeder JA

Species

Human

Dilution

Not Cited

Year

2010

Immunoprecipitation (1)

The Journal of biological chemistry

BAP31 is involved in the retention of cytochrome P450 2C2 in the endoplasmic reticulum.

"MA3-002 was used in immunoprecipitation to demonstrate the interaction between BAP31 and P450 2C2 in the ER of transfected cells and its effect on the subcellular localization and accumulation of P450."

Authors: Szczesna-Skorupa E, Kemper B

Species

Mouse

Dilution

Not Cited

Year

2006

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