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PASK Monoclonal Antibody (mAB6)

Catalog Number **MA1-700**

Product data sheet

Details	
Size	100 µg
Host/Isotope	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	mAB6
Immunogen	Recombinant, GST tagged, PAS fusion protein expressed in E. coli.
Conjugate	Unconjugated
Form	Liquid
Concentration	1 mg/mL
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles

Species Reactivity	
Species reactivity	Human, Non-human primate, Rat
Published species	Human

Tested Applications	Dilution *
Western Blot (WB)	Assay-dependent
Immunocytochemistry (ICC/IF)	1:10-1:200

Published Applications	
Immunohistochemistry (IHC)	See 1 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

MA1-700 contains 100 µg of Protein A/G purified, in vitro produced IgG2a (1 mg/mL) in PBS with 1 mg/mL BSA and 0.05% sodium azide. MA1-700 detects PASK from human, non-human primate and rat samples. MA1-700 has been successfully used in Western blot and CC/IF procedures. The MA1-700 immunogen is recombinant, GST tagged, PAS fusion protein expressed in E. coli This monoclonal antibody was expressed by hybridoma cells grown in vitro in ABR's dialysis-based bioreactor system. All media, reagents, and other variables that affect the system are continuously monitored and controlled, ensuring a superior degree of precision and repeatability compared to an in vivo ascites production. Additionally, the serum free medium is further protein purified for improved antibody performance.

Background/Target Information

PASKIN (PAS-Kinase) is thought to regulate protein synthesis in cells. It is a conserved gene product found in yeast as well as mammals. PASKIN contains two domains (PAS A and PAS B) as well as a serine/threonine kinase domain related to AMP kinases. PASKIN activity leads to decreased carbohydrate storage, as well as increased protein synthesis. PASKIN-dependent phosphorylation inhibits the activity of mammalian glycogen synthase.

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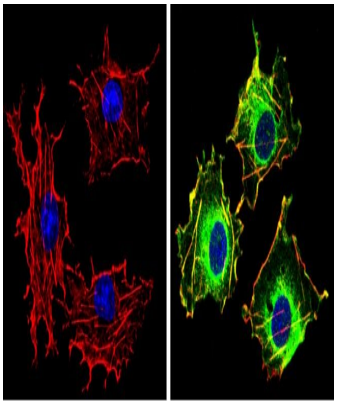
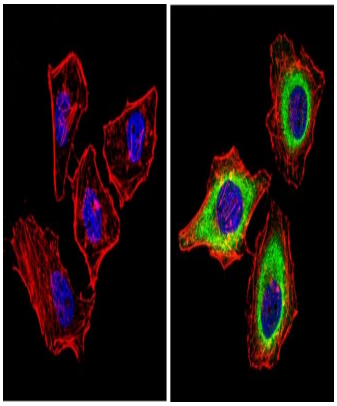
Product Images For PASK Monoclonal Antibody (mAB6)



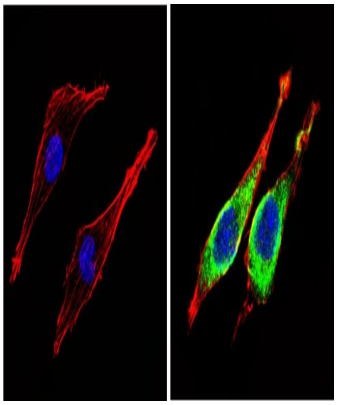
PASK Antibody (MA1-700) in ICC/IF

Immunofluorescent analysis of PASKIN (green) showing staining in the cytoplasm of COS7 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 PASKIN monoclonal antibody (Product # MA1-700) in 3% BSA-PBS at a dilution of 1:100 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. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



PASK Antibody (MA1-700) in ICC/IF

Immunofluorescent analysis of PASKIN (green) showing staining in the cytoplasm of Hela 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 PASKIN monoclonal antibody (Product # MA1-700) in 3% BSA-PBS at a dilution of 1:100 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. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



PASK Antibody (MA1-700) in ICC/IF

Immunofluorescent analysis of PASKIN (green) showing staining in the cytoplasm of L6 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 PASKIN monoclonal antibody (Product # MA1-700) in 3% BSA-PBS at a dilution of 1:100 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. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.

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PubMed References For PASK Monoclonal Antibody (mAB6)

1 Immunohistochemistry References

Species / Dilution	Summary
	MA1-700 was used in immunohistochemistry to study the PASKIN expression in male germ cell and its novel target eEF1A1
Human / 1:50	Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology (2007; 20: 227) **"Male germ cell expression of the PAS domain kinase PASKIN and its novel target eukaryotic translation elongation factor eEF1A1."** Author(s):Eckhardt K,Troger J,Reissmann J,Katschinski DM,Wagner KF,Stengel P,Paasch U,Hunziker P,Borter E,Barth S, Schlafli P,Spielmann P,Stiehl DP,Camenisch G,Wenger RH PubMed Article URL:http://dx.doi.org/10.1159/000104169

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