GRK2 Monoclonal Antibody (5D5)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Host/Isotope	Mouse / IgG2b
Class	Monoclonal
Type	Antibody
Clone	5D5
Conjugate	Unconjugated
Immunogen	Recombinant beta adrenergic receptor kinase 1.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2225831

Applications	Tested	Dilution	Published
ELISA (ELISA)	✓	Assay dependent	
Immunocytochemistry (ICC)	✓	2 µg/mL	
Immunofluorescence (IF)	✓	2 µg/mL	
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:20	
Immunoprecipitation (IP)	✓	Assay dependent	
Western Blot (WB)	✓	3-5 µg/mL	

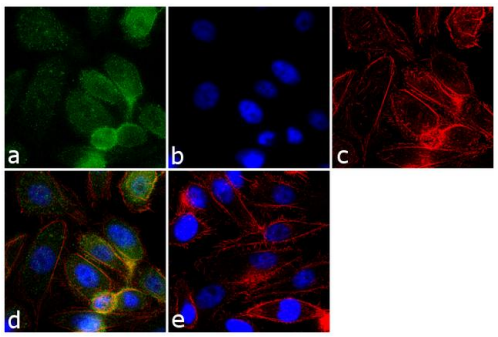
Product Specific Information

MA1-2013 detects the beta andrenergic receptor kinase 1 in human, mouse and rat samples.

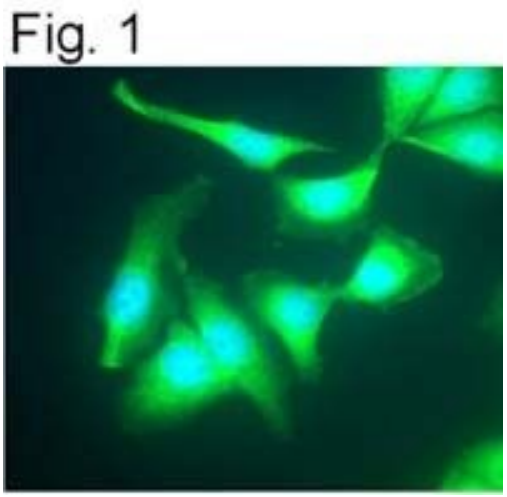
MA1-2013 has been successfully used in Western blot, immunocytochemistry, immunofluoresence, immunoprecipitation, and ELISA procedures. By Western blot this antibody detects a ~30 kDa protein representing the beta andrenergeic receptor kinase 1 in human HeLa cells. In immunocytochemistry procedures MA1-2013 recognizes the beta andrenergic receptor kinase 1 in HeLa, Hek-293 and 3T3 cells. Immunofluoresence in HeLa cells yeilds predominantely cytoplasmic membrane associated staining with some staining in the ruffles.

The MA1-2013 immunogen is recombinant beta adrenergic receptor kinase 1.

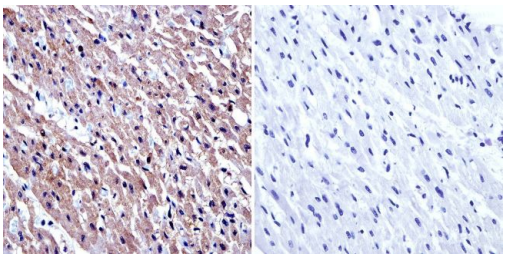
Product Images For GRK2 Monoclonal Antibody (5D5)



GRK2 Antibody (MA1-2013) in IF
Immunofluorescence analysis of GRK2 was performed using 70% confluent log phase PC-3 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with GRK2 (5D5) Mouse Monoclonal Antibody (Product # MA1-2013) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic and membranous localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



GRK2 Antibody (MA1-2013) in IF
Immunofluoresence staining of beta adrenergic receptor kinase 1 in HeLa cells using Product # MA1-2013.



GRK2 Antibody (MA1-2013) in IHC
Immunohistochemistry was performed on normal biopsies of deparaffinized human heart tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:20 with a Mouse Monoclonal Antibody recognizing beta Adrenergic Receptor Kinase 1 (Product # MA1-2013) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.