INSR alpha Monoclonal Antibody (83-14)

Product Details	
Size	500 µL
Species Reactivity	Bovine, Human, Sheep, Pig
Host/Isotype	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	83-14
Conjugate	Unconjugated
Immunogen	IM-9 lymphocytes followed by purified insulin receptor.
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_2536349

Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	-
Immunocytochemistry (ICC/IF)	5 µg/mL	-
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	2 µg / mg lysate	-
Functional Assay (FN)	Assay-dependent	-
Inhibition Assays (IA)	Assay-dependent	-

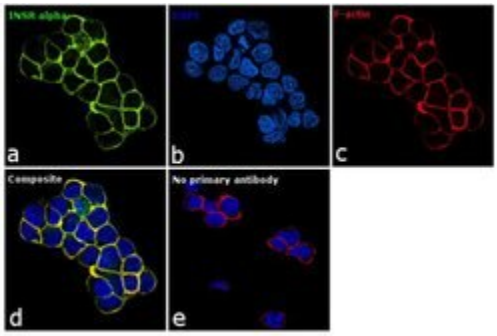
Product Specific Information

This antibody reacts with an epitope at aa 469-592 (exon 7/8). It primarily reacts with human, but also reacts very weakly with cow, pig and sheep.

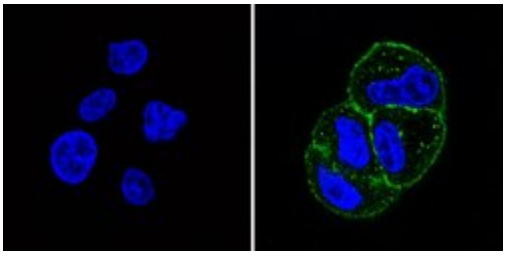
This antibody can inhibit insulin binding (~80%). It can also be used in a Tyrosine Kinase assay (Ab-mediated capture on microtitre plates).

Without BSA, this antibody can be used as an insulin-like agonist. Without BSA, it can also be used as both a capture and detection antibody in a sandwich ELISA.

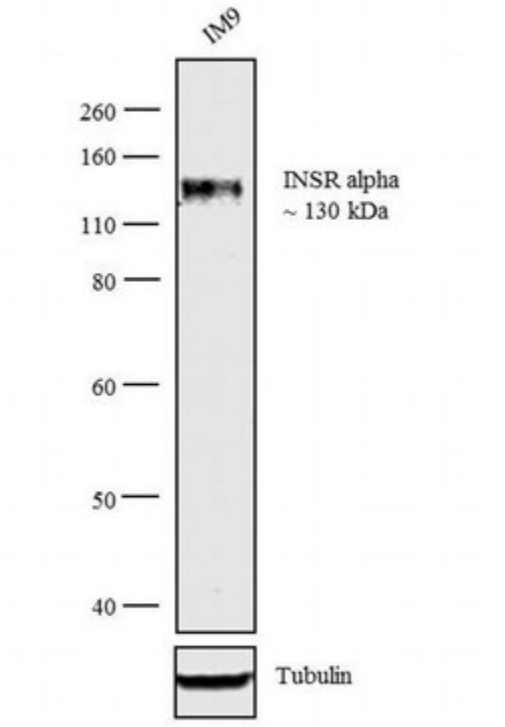
Product Images For INSR alpha Monoclonal Antibody (83-14)



INSR alpha Antibody (AHR0221) in ICC/IF
Immunofluorescence analysis of INSR alpha was performed using log phase IM-9 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 INSR alpha Monoclonal Antibody (83-14) (Product # AHR0221) at 5 µg/mL in 0.1% BSA, incubated overnight at 4 degree 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 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing membranous localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



INSR alpha Antibody (AHR0221) in ICC/IF
Immunofluorescent analysis of Insulin Receptor alpha (green) showing staining in the membrane of HepG2 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 an Insulin Receptor alpha monoclonal antibody (Product # AHR0221) in 3% BSA-PBS at a dilution of 1:20 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.



INSR alpha Antibody (AHR0221) in WB
Western blot analysis was performed on membrane enriched extract (30 µg lysate) of IM9 (Lane 1). The blot was probed with Anti-INSR alpha Monoclonal Antibody (Product # AHR0221, 1 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 130 kDa band corresponding to INSR alpha was observed in the cell line tested.

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