

# INSR Monoclonal Antibody (CT-3)

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	CT-3
Conjugate	Unconjugated
Immunogen	Recombinant-fragment including the C-terminal 100 amino acids of human insulin receptor
Form	Liquid
Concentration	50 µg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10985120

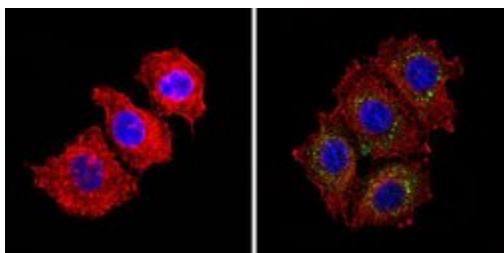
Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	5 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:50	-
Immunocytochemistry (ICC/IF)	1:10-1:100	-
ELISA (ELISA)	Assay-dependent	-
Affinity Purification (AP)	Assay-dependent	-

## Product Specific Information

MA5-13783 targets Insulin Receptor beta in ELISA, ICC/IF, IHC (P), Affinity Purification, and WB applications and shows reactivity with Human, mouse, Non-human primate, and Rat samples.

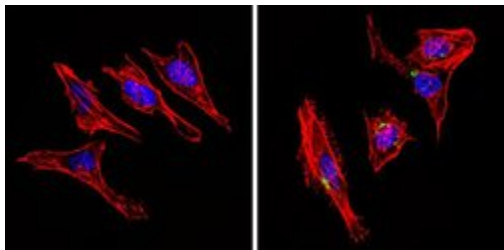
The MA5-13783 immunogen is recombinant-fragment including the C-terminal 100 amino acids of human insulin receptor.

## Product Images For INSR Monoclonal Antibody (CT-3)



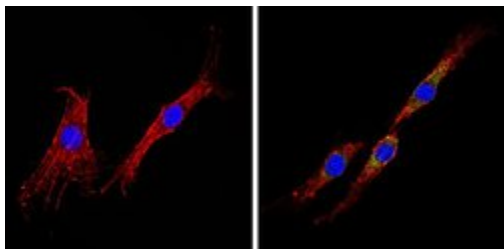
### INSR Antibody (MA5-13783) in ICC/IF

Immunofluorescent analysis of Insulin Receptor beta (green) showing staining in the cytoplasm of MCF-7 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 beta monoclonal antibody (Product # MA5-13783) 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 Antibody (MA5-13783) in ICC/IF

Immunofluorescent analysis of Insulin Receptor beta (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 an Insulin Receptor beta monoclonal antibody (Product # MA5-13783) 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 Antibody (MA5-13783) in ICC/IF

Immunofluorescent analysis of Insulin Receptor beta (green) showing staining in the cytoplasm of C6 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 beta monoclonal antibody (Product # MA5-13783) 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.

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## Western Blot (5)

The Journal of biological chemistry

### Hyperphosphorylation of Tau induced by naturally secreted amyloid- at nanomolar concentrations is modulated by insulin-dependent Akt-GSK3 signaling pathway.

"MA5-13783 was used in western blot to study the role of insulin-dependent Akt/GSK3-beta signaling in the mechanism by which nanomolar levels of secreted beta-amyloid induce tau hyperphosphorylation in recipient cells"

Authors: Tokutake T,Kasuga K,Yajima R,Sekine Y,Tezuka T,Nishizawa M,Ikeuchi T

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2012

Molecular and cellular biology

### Coordinated regulation of insulin signaling by the protein tyrosine phosphatases PTP1B and TCPTP.

"MA5-13783 was used in western blot to study the coordinated regulation of insulin signaling by the protein tyrosine phosphatases PTP1B and TCPTP"

Authors: Galic S,Hauser C,Kahn BB,Haj FG,Neel BG,Tonks NK,Tiganis T

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2005

[View more WB references on thermofisher.com](#)

## Immunohistochemistry (2)

British journal of cancer

### Focal overexpression of insulin-like growth factor 2 by hepatocytes and cholangiocytes in viral liver cirrhosis.

"MA5-13783 was used in immunohistochemistry to study IGF-2 focal overexpression by hepatocytes and cholangiocytes in viral liver cirrhosis"

Authors: Sedlaczek N,Hasilik A,Neuhaus P,Schuppan D,Herbst H

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2003

American journal of clinical pathology

### The use of protein tyrosine phosphatase 1B and insulin receptor immunostains to differentiate nonalcoholic from alcoholic steatohepatitis in liver biopsy specimens.

"MA5-13783 was used in immunohistochemistry to evaluate protein tyrosine phosphatase 1B and insulin receptor as markers for differentiating nonalcoholic and alcoholic steatohepatitis"

Authors: Sanderson SO,Smyrk TC

**Species**  
Human

**Dilution**  
1:100

**Year**  
2005

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