

INSR beta Monoclonal Antibody (CT-3)

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse
Published Species	Rat, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	CT-3
Conjugate	Unconjugated
Immunogen	Recombinant fragment including the C-terminal 100 amino acid residues of human insulin receptor.
Form	Liquid
Concentration	0.05 mg/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_2536351

Applications	Tested Dilution	Publications
Western Blot (WB)	1:25-1:50	4 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	1:10-1:100	1 Publication
ELISA (ELISA)	Assay-dependent	1 Publication

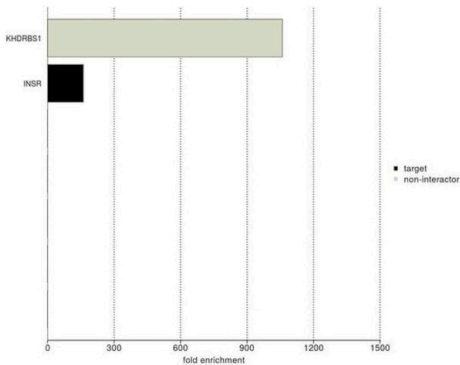
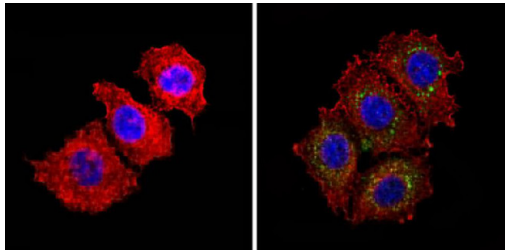
Product Specific Information

Staining of formalin-fixed paraffin embedded tissue sections requires boiling the sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at room temperature for 20 minutes.

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

INSR beta Antibody (AHR0271) 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 # AHR0271) 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.

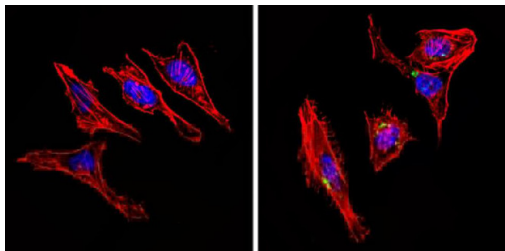


INSR beta Antibody (AHR0271)

IP-MS enrichment of INSR (LFQ intensity): INSR was enriched 161-fold from HCT116 lysate compared to background proteins, using the optimized IP-MS workflow with Pierce MS-Compatible Magnetic IP Kit protein A/G (Product # 90409) and INSR antibody (Product # AHR0271). The STRING database (www.string-db.org) was used to identify the protein interactor list. See more information on IP-MS verification of antibody selectivity. {IP-MS}

INSR beta Antibody (AHR0271) 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 # AHR0271) 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 (4)

<p>Age (Dordrecht, Netherlands)</p> <p>A persistent increase in insulin-stimulated glucose uptake by both fast-twitch and slow-twitch skeletal muscles after a single exercise session by old rats.</p> <p>"AHR0271 was used in western blot to measure the effects of exercise on glucose uptake by type I (slow-twitch) muscle from old rats."</p> <p>Authors: Xiao Y,Sharma N,Arias EB,Castorena CM,Cartee GD</p>	<p>Year 2013</p> <p>Species Rat</p>
<p>The journals of gerontology. Series A, Biological sciences and medical sciences</p> <p>Calorie restriction enhances insulin-stimulated glucose uptake and Akt phosphorylation in both fast-twitch and slow-twitch skeletal muscle of 24-month-old rats.</p> <p>"AHR0271 was used in western blot to examine the insulin signaling pathway in isolated epitrochlearis and soleus muscles of old rats."</p> <p>Authors: Sequea DA,Sharma N,Arias EB,Cartee GD</p>	<p>Year 2012</p> <p>Species Rat</p> <p>Dilution 1:1000</p>

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

Immunohistochemistry (1)

<p>Nature</p> <p>Suppression of insulin feedback enhances the efficacy of PI3K inhibitors.</p> <p>"AHR0271 was used in Immunohistochemistry to study whether insulin feedback induced by phosphatidylinositol-3 kinase inhibitors may reactivate the phosphatidylinositol-3 kinase-mTOR signalling axis in tumours, thereby compromising treatment effectiveness."</p> <p>Authors: Hopkins BD,Pauli C,Du X,Wang DG,Li X,Wu D,Amadiume SC,Goncalves MD,Hodakoski C,Lundquist MR,Bareja R,Ma Y,Harris EM,Sboner A,Beltran H,Rubin MA,Mukherjee S,Cantley LC</p>	<p>Year 2018</p> <p>Species Mouse</p> <p>Dilution 1:100</p>
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Immunohistochemistry (Paraffin) (1)

<p>The Journal of pathology</p> <p>High expression of insulin receptor on tumour-associated blood vessels in invasive bladder cancer predicts poor overall and progression-free survival.</p> <p>"AHR0271 was used in immunohistochemistry - paraffin section to find novel biomarkers associated with bladder cancer progression"</p> <p>Authors: Roudnicky F,Dieterich LC,Poyet C,Buser L,Wild P,Tang D,Camenzind P,Ho CH,Otto VI,Detmar M</p>	<p>Year 2017</p> <p>Species Mouse</p>
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More applications with references on thermofisher.com

- IHC (F) (1)
- ICC/IF (1)
- ELISA (1)

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