INSR alpha Monoclonal Antibody (83-7)

Product Details	
Size	500 µL
Species Reactivity	Bovine, Human, Sheep, Pig, Rabbit
Published Species	Yeast, Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	83-7
Conjugate	Unconjugated
Immunogen	IM-9 lymphocytes followed by purified insulin receptor.
Form	Liquid
Concentration	0.2 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_2536350

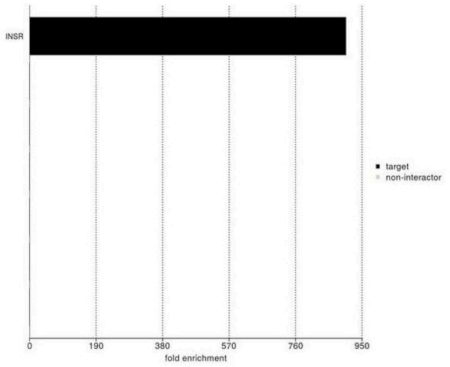
Applications	Tested Dilution	Publications
Immunohistochemistry (Paraffin) (IHC (P))	2-4 µg/mL	-
Immunohistochemistry (Frozen) (IHC (F))	2-4 µg/mL	-
Immunocytochemistry (ICC/IF)	1:10-1:100	1 Publication
Flow Cytometry (Flow)	Assay-Dependent	-
ELISA (ELISA)	Assay-dependent	2 Publications

Product Specific Information

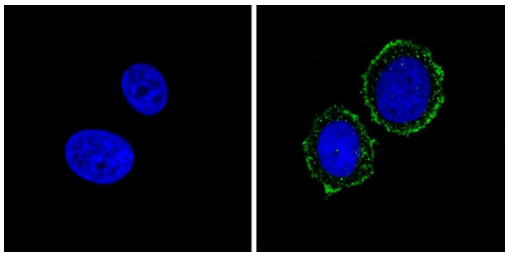
This antibody is specific for IR and shows no cross-reactivity with insulin-like growth factor (IGF)-receptors. The epitope for this monoclonal antibody is conformational and is located in exon 3.

Staining of formalin-fixed, paraffin tissues requires digestion of tissue sections with pepsin at 1mg/mL in Tris-HCl, pH 2.0, for 15 min at room temperature or 10 min at 37ºC. Recommended positive controls include IM-9 lymphocytes, placenta, or breast carcinoma.

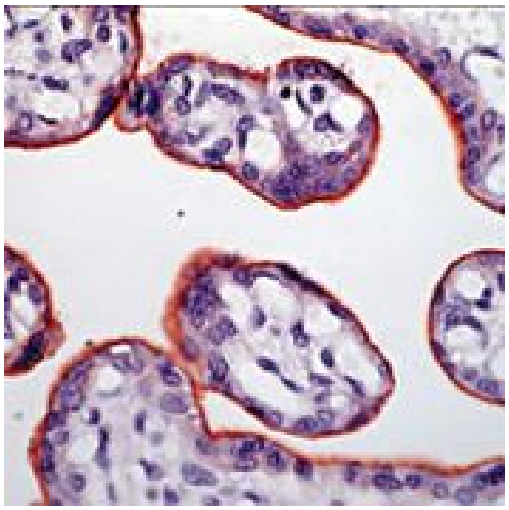
Product Images For INSR alpha Monoclonal Antibody (83-7)



INSR alpha Antibody (AHR0231)
IP-MS enrichment of INSR (LFQ intensity): INSR was enriched 904-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 # AHR0231). 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 alpha Antibody (AHR0231) in ICC/IF
Immunofluorescent analysis of Insulin Receptor alpha (green) showing staining in the cytoplasm and membrane 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 alpha monoclonal antibody (Product # AHR0231) in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4 ºC 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 (AHR0231) in IHC (P)
Immunohistochemical analysis of INSR/Insulin Receptor beta in formalin-fixed, paraffin-embedded human placenta tissue using an INSR monoclonal antibody (Product # AHR0231). Detection was performed with a peroxidase-conjugate and AEC chromogen. Note cell membrane staining of trophoblasts.

View more figures on thermofisher.cn

3 References

Immunocytochemistry (1)

Biochemistry

Display of Single-Chain Insulin-like Peptides on a Yeast Surface.

"AHR0231 was used in Immunocytochemistry to report a method for genetically displaying single-chain insulin-like peptides on the surface of Saccharomyces cerevisiae strain DY1632."

Authors: Jeong MY,Rutter J,Chou DH

Year
2019

Species
Yeast

Dilution
1:100

ELISA (2)

Nature communications

Regulation of age-associated insulin resistance by MT1-MMP-mediated cleavage of insulin receptor.

"AHR0231 was used in Enzyme-linked immunosorbent assay to provide mechanistic insights into regulation of insulin sensitivity during physiological ageing and highlight MT1-MMP as a promising target for therapeutic avenue against diabetes."

Authors: Guo X,Asthana P,Gurung S,Zhang S,Wong SKK,Fallah S,Chow CFW,Che S,Zhai L,Wang Z,Ge X,Jiang Z,Wu J,Zhang Y,Wu X,Xu K,Lin CY,Kwan HY,Lyu A,Zhou Z,Bian ZX,Wong HLX

Year
2022

Species
Mouse

Diabetologia

Sequential cleavage of insulin receptor by calpain 2 and -secretase impairs insulin signalling.

"AHR0231 was used in an ELISA assay to study the mechanism of insulin receptor cleavage."

Authors: Yuasa T,Amo-Shiinoki K,Ishikura S,Takahara M,Matsuoka T,Kaneto H,Kuroda A,Matsuhisa M,Hashida S

Year
2016

Species
Human

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.