

Rabbit anti-Mouse, Human Irisin (FNDC5) Polyclonal Antibody | anti-FNDC5 antibody

Rabbit Anti-Irisin (FNDC5) Affinity Pure

CATALOG # AAA60453	HOST Rabbit	REACTIVITY Mouse, Human	APPLICATIONS ELISA, Immunoblot, Western Blot
------------------------------	-----------------------	-----------------------------------	--

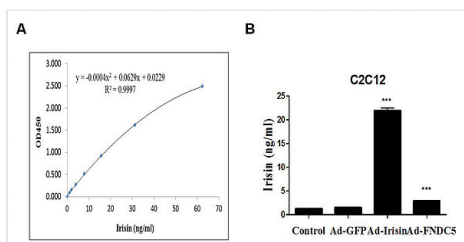
PRODUCT SYNONYMS

Irisin (FNDC5); Polyclonal Antibody; Rabbit Anti-Irisin (FNDC5) Affinity Pure; anti-FNDC5 antibody

PRODUCT SPECIFICATIONS

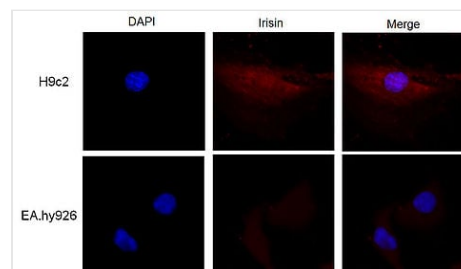
Host	Rabbit
Reactivity	Mouse, Human
Clonality	Polyclonal
Concentration	250ug / ml (OD 1.35 / 280 nm) (varies by lot)
Sequence Length	153
Applicable Applications for anti-FNDC5 antibody	ELISA, IB (Immunoblot)
Source Note	Polyclonal antibody purified by rIrisin-Sepharose affinity column. Recombinant Irisin (rIrisin) is constructed from the coding sequence of mouse (NM 027402.3). rIrisin produce in BL 21 competent cells.
Preservation	In 75 mM Sodium Phosphate, 75 mM NaCl, 0.5 mM EDTA, 0.02% NaN3, pH 7.2 and 25% glycerol.
Preparation and Storage	Store at -20 degree C for long-term storage, 4 degree C for short-term storage. Aliquot to avoid repeated thaw and freeze.

IMAGES



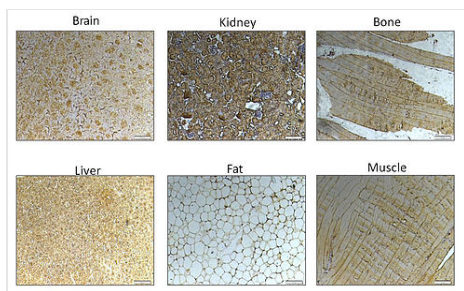
ELISA

ELISA: Data demonstrates detection of irisin after gene delivery following ELISA protocol



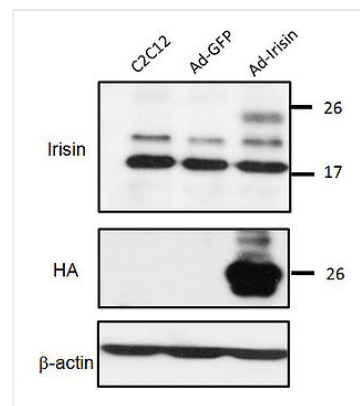
IF (Immunofluorescence)

IF: Immunofluorescence analysis of FNDC5 expression in cardiomyocytes and endothelial cells. Cultured cells were fixed, permeabilized, then stained with anti-Irisin (1 ug/ml) by immunofluorescence analysis. After fixation, the cells were permeabilized then stained with anti-Irisin (1 mug/ml) at room temperature for 1 h followed by repeated washes with PBS. Then, the slides were incubated with fluorescein 5-isothiocyanate (FITC)-labeled secondary antibody (1?500 dilution) for 30 min at room temperature. After mounting in anti-Fade media, the slides were visualized under a fluorescence microscope.



IHC (Immunohistochemistry)

IHC: Paraffin-embedded mouse tissues were stained with anti-Irisin (1 ug/ml) by immunohistochemical analysis. The paraffin-embedded mice tissues were sectioned into 3-μm slices and mounted on poly (l-lysine)-coated slides. After deparaffinization, the slides were blocked with 3% hydrogen peroxide for 10 min and subjected to antigen retrieval with microwave in 10 mM citrate buffer for 15 min. The slides were incubated with irisin antibodies (1 μg/ml) at 4 degree C. After wash with PBS, the sections were incubated with horseradish peroxidase/Fab polymer conjugate (polymer detection system; Zymed Laboratories, South San Francisco, CA) for 30 min and detected using diaminobenzidine (1:20 dilution; Zymed Laboratories).



WB (Western Blot)

Western Blot: C2C12 cells were infected with adenovirus GFP control (Ad-GFP) or HA-Irisin (Ad-Irisin) and cell lysates were subjected to western blot analysis by staining with our anti-Irisin antibody (500 ng/ml). Both the 18 and 21 kDa bands are irisin, resulting from multiple FNDC5-derived fragments in different cell lines and tissues due to alternative splicing and post-translation modifications. Antigen neutralization studies and FNDC5 knockout studies in HCC cells has been done to validate the protein bands detected by western blot in collaboration with Professor Ming-Hong Tai from National Sun Yat-sen University in Taiwan. The 25 kDa band shows the HA-tagged irisin.

ADDITIONAL INFORMATION

Related Product Information for anti-FNDC5 antibody	Description: The exercise-inducible myokine Irisin (Boström, et al. 2012) is secreted by cleavage from the transmembrane precursor, FNDC5. Circulating Irisin govern a wide variety of cellular processes relevant to browning, angiogenesis, wound healing, bone mass, and metabolism. Our series of Anti-rIrisin products including Rabbit Anti-rIrisin Neat Antiserum. Use: The antibody can be used for detection of Irisin in plasma, immunosassays, immunoblots.
Product Categories/Family for anti-FNDC5 antibody	Polyclonal Antibody
References	Boström, et al. 2012. A PGC1-α-dependent myokine that drive brown-fat-like development of white fat and thermogenesis. <i>Nature</i> , 481: 463-468

NCBI AND UNIPROT INFORMATION

NCBI GI #	38382887
NCBI GeneID	252995
Molecular Weight	15,527 Da
NCBI Official Full Name	FNDC5 protein
NCBI Official Synonym Full Names	fibronectin type III domain containing 5
NCBI Official Symbol	FNDC5
NCBI Official Synonym Symbols	FRCP2; irisin
NCBI Protein Information	fibronectin type III domain-containing protein 5
UniProt Protein Name	Fibronectin type III domain-containing protein 5
UniProt Gene Name	FNDC5
UniProt Synonym Gene Names	FRCP2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.