Performance guarenteed

HK1 Monoclonal Antibody (3A10)

Product Details

Size100 μLSpecies ReactivityHuman, Mouse, RatPublished SpeciesMouseHost/IsotypeMouse / IgG1ClassMonoclonalTypeAntibodyClone3A10
Published SpeciesMouseHost/IsotypeMouse / IgG1ClassMonoclonalTypeAntibody
Host/IsotypeMouse / IgG1ClassMonoclonalTypeAntibody
Class Monoclonal Type Antibody
Type Antibody
Clone 3A10
Conjugate Unconjugated
Immunogen Purified recombinant fragment of human HK1 expressed in E. Coli.
Form Liquid
Concentration Conc. Not Determined
Storage buffer ascites
Contains 0.03% sodium azide
Storage conditions Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID AB_10979325

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:2,000	1 Publication
Immunohistochemistry (IHC)	1:200-1:1,000	-
Immunocytochemistry (ICC/IF)	1:200-1:1,000	-
Flow Cytometry (Flow)	1:200-1:400	-
ELISA (ELISA)	1:10,000	-

Product Specific Information

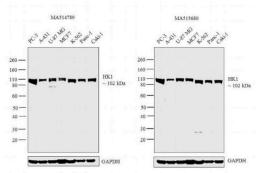
MA5-15680 targets HK1 in indirect ELISA, FACS, ICC, IHC, IF and WB applications and shows reactivity with Human, mouse, and Rat samples.

The MA5-15680 immunogen is purified recombinant fragment of human HK1 expressed in E. Coli.

MA5-15680 detects HK1 which has a predicted molecular weight of approximately 120kDa.

1

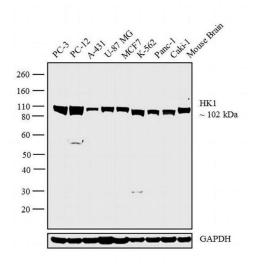
Product Images For HK1 Monoclonal Antibody (3A10)



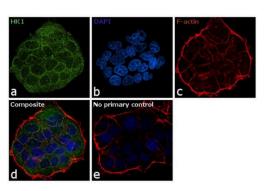
HK1 Antibody (MA5-15680)

Antibody specificity was demonstrated by showing that antibodies raised against the same target protein perform similarly. Western blot of HK1 using HK1 Monoclonal Antibody (Product # MA5-15680), tested in parallel with HK1 Monoclonal Antibody (Product # MA5-14789), shows similar expression of HK1 in the cell lines tested. {IAV}

HK1 Antibody (MA5-15680) in WB



Western blot analysis was performed on whole cell extracts (30 µg lysate) of PC-3 (Lane 1), PC-12 (Lane 2), A-431 (Lane 3), U-87 MG (Lane 4), MCF7 (Lane 5), K-562 (Lane 6), Panc-1 (Lane 7), Caki-1 (Lane 8) and tissue extract (30 µg lysate) of Mouse Brain (Lane 9). The blot was probed with Anti-HK1 Monoclonal Antibody (Product # MA5-15680, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal[™] Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 102 kDa band corresponding to HK1 was observed across the cell lines and tissue extract tested.



HK1 Antibody (MA5-15680) in ICC/IF

Immunofluorescence analysis of HK1 was performed using 70% confluent log phase MCF-7 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton[™] X-100 for 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with HK1 Monoclonal Antibody (3A10) (Product # MA5-15680) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Mouse IgG (Heavy Chain) Superclonal[™] Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) 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 cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

View more figures on thermofisher.com

□ 1 Reference

Western Blot (1)

Brain, behavior, and immunity

Traumatic stress history interacts with sex and chronic peripheral inflammation to alter mitochondrial function of synaptosomes.

"MA5-15680 was used in Western Blotting to highlight that different mechanisms are likely in play between the sexes and that sex differences in neural outcomes may be precipitated by sex-specific effects of life experiences on mitochondrial function in the synapse."

Authors: Shaw GA, Hyer MM, Targett I, Council KR, Dyer SK, Turkson S, Burns CM, Neigh GN

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 provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Product is 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 furnished. To super interview of the REFLON TO REPARK. REFLON TO REPARK. REFLACEMENT OF OR NON-CONFINING PRODUCTS DURING THE WARRANTES, EXPRESS OR INVERDING TO REPARK. REFLACEMENT OF OR REFLON FOR THE RESS OLD EPTION TO REFLAR. REFLACE OR REFLON FOR THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (III) USE OF THE PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (III) USE OF THE PRODUCTS IN A MANKER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on 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.

Year 2020

> Species Mouse