

eIF4E Monoclonal Antibody (5D11)

Product Details

Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	5D11
Conjugate	Unconjugated
Immunogen	Full length human eIF4E produced in HEK293T cells
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS with 1mg/mL BSA, 30% glycerol
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2536738

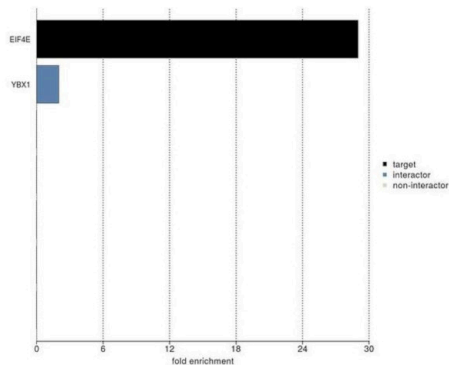
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	1 Publication
Immunocytochemistry (ICC/IF)	1:100-1:500	-
Immunoprecipitation (IP)	3-5 µg	-
in situ PLA (PLA)	-	1 Publication
RNA Immunoprecipitation (RIP)	Assay-Dependent	-

Product Specific Information

MA1-089 detects eIF4E in human and mouse samples and has been successfully used in Western blot, immunofluorescence, immunocytochemistry and immunoprecipitation applications. MA1-089 does not react with rat eIF4E.

The MA1-089 immunogen is full length human eIF4E produced in HEK293T cells.

Product Images For eIF4E Monoclonal Antibody (5D11)

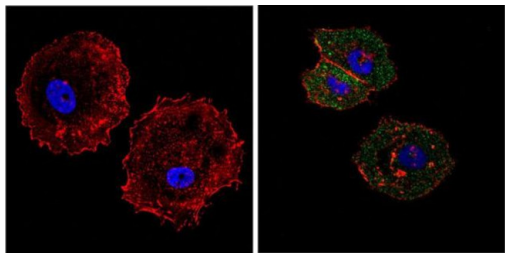


eIF4E Antibody (MA1-089)

IP-MS enrichment of EIF4E (LFQ intensity): EIF4E was enriched 29-fold from HepG2 lysate compared to background proteins, using the optimized IP-MS workflow with Pierce MS-Compatible Magnetic IP Kit protein A/G (Product # 90409) and EIF4E antibody (Product # MA1-089). 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}

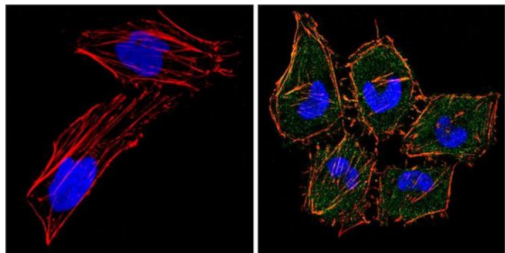
eIF4E Antibody (MA1-089) in ICC/IF

Immunofluorescent analysis of eIF4E (green) showing positive staining in the cytoplasm of MCF-7 cells (right) compared with a negative control in the absence of primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes, blocked with 3% BSA-PBS for 30 minutes at room temperature and probed with an eIF4E monoclonal antibody (Product # MA1-089) in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 488-conjugated goat-anti-mouse IgG (H+L) 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 DAPI for 5-10 minutes in the dark. Images were taken at a magnification of 60x.



eIF4E Antibody (MA1-089) in ICC/IF

Immunofluorescent analysis of eIF4E (green) showing positive staining in the cytoplasm of Hela cells (right) compared with a negative control in the absence of primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes, blocked with 3% BSA-PBS for 30 minutes at room temperature and probed with an eIF4E monoclonal antibody (Product # MA1-089) in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 488-conjugated goat-anti-mouse IgG (H+L) 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 DAPI for 5-10 minutes in the dark. Images were taken at a magnification of 60x.



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Western Blot (1)

Biology of reproduction

Nuclear localization of EIF4G3 suggests a role for the XY body in translational regulation during spermatogenesis in mice.

"MA1-089 was used in Western Blotting to study the developmental expression and subcellular localisation of EIF4G3, and how this might contribute to its highly specific role in meiosis and spermatogenesis."

Authors: Hu J,Sun F,Handel MA

Year
2018

Species
Mouse

Dilution
1:2,000

in situ PLA (1)

The Journal of clinical investigation

mTOR-dependent translation amplifies microglia priming in aging mice.

"MA1-089 was used in Proximity Ligation Assay (PLA) to show that microglia from aged mice upregulated mammalian target of rapamycin (mTOR) complex 1 signaling regulating translation, as well as protein levels of inflammatory mediators."

Authors: Keane L,Antignano I,Riechers SP,Zollinger R,Dumas AA,Offermann N,Bernis ME,Russ J,Graelmann F, McCormick PN,Esser J,Tejera D,Nagano A,Wang J,Chelala C,Biederbick Y,Halle A,Salomoni P,Heneka MT,Capasso M

Year
2021

Species
Mouse

Dilution
1:200

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