

HIF-1 beta Monoclonal Antibody (2B10)

Product Details	
Size	100 µL
Species	Human, Mouse, Non-human primate, Rat
Published Species	Rat, Non-human primate, Fish, Mouse, Human, Xenopus, Chimpanzee
Expression System	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	2B10
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues C N(771) S Y N N E E F P D L T M F P P F S E(789) of human ARNT.
Form	Liquid
Concentration	1 mg/mL
Purification	purified
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2059441

Applications	Tested Dilution	Publications
Gel Shift (GS)	Assay dependent	2 Publications
Immunocytochemistry (ICC)	Assay dependent	2 Publications
Immunofluorescence (IF)	1:1,000	-
Immunohistochemistry (Paraffin) (IHC (P))	5 µg/mL	-
Immunoprecipitation (IP)	Assay dependent	2 Publications
Western Blot (WB)	1:500-1:3000	11 Publications
Immunohistochemistry (IHC)	-	1 Publication

Product Specific Information

MA1-515 detects aryl hydrocarbon (Ah) receptor nuclear translocator (ARNT) from human, mouse, rat, and primate tissues.

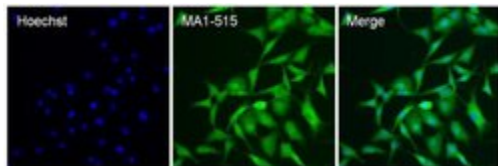
MA1-515 has been successfully used in Western blot, immunofluorescence, gel shift, immunocytochemistry, and immunoprecipitation procedures. By Western blot, this antibody detects an 87 kDa protein representing ARNT in COS cell extract. Immunofluorescence staining of ARNT in VT{2} cells (Hepa 1-C4T mutant deficient in ARNT function but stably transfected with the full length human ARNT cDNA) using MA1-515 yields non-nucleolar, nuclear staining only.

MA1-515 immunogen is a synthetic peptide corresponding to residues C N(771) S Y N N E E F P D L T M F P P F S E(789) of human ARNT.

Product Images For HIF-1 beta Monoclonal Antibody (2B10)

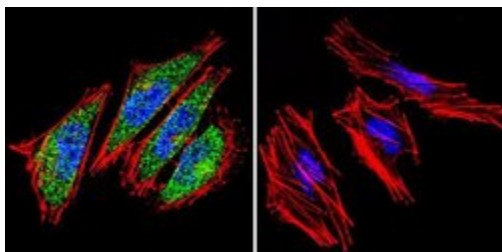
HIF-1 beta Antibody (MA1-515) in IF

Immunofluorescent analysis of HIF-1 beta (green) in NRK cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes, and blocked with 3% BSA in PBS (Product # 37525) for 30 minutes at room temperature. Cells were stained with a HIF-1 beta antibody (Product # MA1-515) at a dilution of 40 µg/mL in staining buffer for 1 hour at room temperature, and then incubated with a Goat anti-Mouse IgG (H+L) Superclonal Secondary Antibody, Alexa Fluor 488 conjugate (Product # A28175) at a dilution of 1:1000 for 1 hour at room temperature (green). Nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ToxInsight Instrument at 20X magnification.



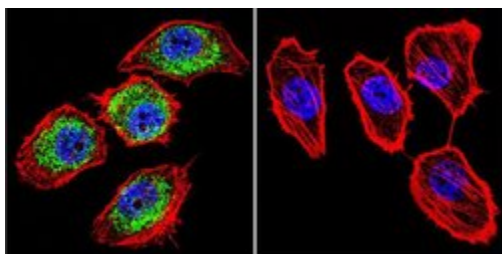
HIF-1 beta Antibody (MA1-515) in IF

Immunofluorescent analysis of HIF-1 beta using HIF-1 beta Monoclonal Antibody (2B10) (Product # MA1-515) shows staining in A2058 Cells. HIF-1 beta (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing HIF-1 beta (Product # MA1-515) at a dilution of 1:100 over night at 4 °C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35503 for GAR, Product # 35503 for GAM). Images were taken at 60X magnification.



HIF-1 beta Antibody (MA1-515) in IF

Immunofluorescent analysis of HIF-1 beta using HIF-1 beta Monoclonal Antibody (2B10) (Product # MA1-515) shows staining in U251 Cells. HIF-1 beta (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing HIF-1 beta (Product # MA1-515) at a dilution of 1:100 over night at 4 °C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552 for GAR, Product # 35503 for GAM). Images were taken at 60X magnification.



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Gel Shift (2)

American journal of human genetics

A common functional regulatory variant at a type 2 diabetes locus upregulates ARAP1 expression in the pancreatic beta cell.

"MA1-515 was used in EMSA to study the upregulation of pancreatic beta cell ARAP1 by a functional regulatory DNA variant at a type 2 diabetes locus"

Authors: Kulzer JR, Stitzel ML, Morken MA, Huyghe JR, Fuchsberger C, Kuusisto J, Laakso M, Boehnke M, Collins FS, Mohlke KL

Species
Mouse

Dilution
Not Cited

Year
2014

The Journal of experimental zoology

Identification and functional characterization of hypoxia-inducible factor 2alpha from the estuarine teleost, Fundulus heteroclitus: interaction of HIF-2alpha with two ARNT2 splice variants.

"MA1-515 was used in EMSA to identify and characterize hypoxia-inducible factor 2alpha from the estuarine teleost and its interaction with ARNT2 splice variants"

Authors: Powell WH, Hahn ME

Species
Fish

Dilution
Not Cited

Year
2002

Western Blot (11)

Nucleic acids research

Reciprocal regulation of the basic helix-loop-helix/Per-Arnt-Sim partner proteins, Arnt and Arnt2, during neuronal differentiation.

"MA1-515 was used in western blot to study the reciprocal regulation of the levels of Arnt and Arnt2 during neuronal development"

Authors: Hao N, Bhakti VL, Peet DJ, Whitelaw ML

Species
Mouse

Dilution
Not Cited

Year
2013

Endocrinology

Hypoxia-inducible factor and vascular endothelial growth factor are targets of dietary soy during acute stroke in female rats.

"MA1-515 was used in western blot to study the role of HIF-1alpha and VEGF in the neuroprotective effects of soy following acute stroke"

Authors: Ma Y, Lovekamp-Swan T, Bekele W, Dohi A, Schreihofer DA

Species
Rat

Dilution
1:2000

Year
2013

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IHC (1) IP (2) ICC (2)

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