

EphB4 Monoclonal Antibody (3D7F8)

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	3D7F8
Conjugate	Unconjugated
Immunogen	Recombinant protein corresponding to the C-terminal sequence of the human EphB4 receptor
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533201

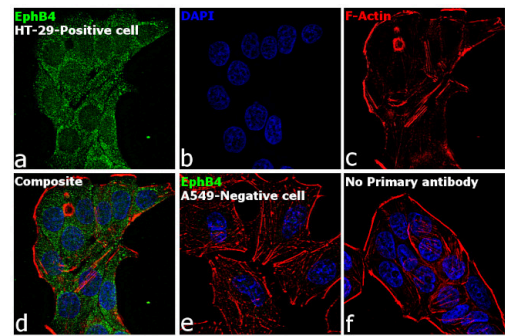
Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20	-
Immunocytochemistry (ICC/IF)	3-5 µg/mL	1 Publication
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	-	1 Publication

Product Specific Information

37-1800 has been successfully used in Western Blot, immunohistochemical, immunofluorescence, and ELISA assays.

35-2900 by western blot detects a ~125kDa band representing EphB4 but also detects a strong band at ~90kDa , likely representing another protein in the ephrin family. 37-1800 is recommended for WB.

Product Images For EphB4 Monoclonal Antibody (3D7F8)

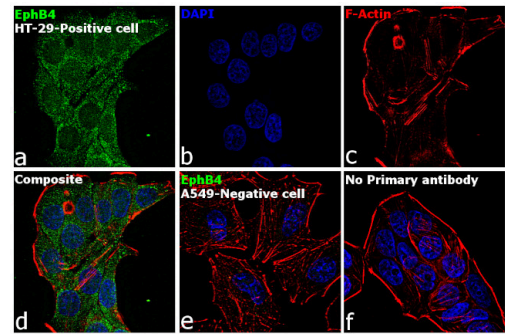


EphB4 Antibody (35-2900)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using EphB4 Monoclonal Antibody (3D7F8) (Product # 35-2900) showed expression of EphB4 only in HT-29 cells as compared to A549 cells. {RE}

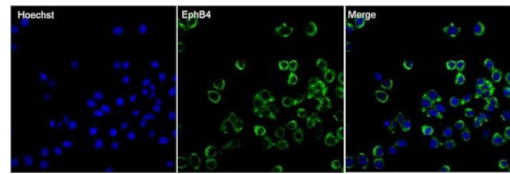
EphB4 Antibody (35-2900) in ICC/IF

Immunofluorescence analysis of EphB4 was performed using 70% confluent log phase HT-29, A549 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with EphB4 Mouse Monoclonal Antibody (3D7F8) (Product # 35-2900) at 4 µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). 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 A549 cells having no expression of EphB4. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



EphB4 Antibody (35-2900) in ICC/IF

Immunofluorescent analysis of EphB4 (green) in HT29 cells. The cells were fixed with 4% paraformaldehyde in PBS for 15 minutes at room temperature and blocked with 3% BSA for 30 minutes at room temperature. Cells were stained with a EphB4 mouse monoclonal antibody (Product # 35-2900) at a concentration of 5 µg/mL in blocking buffer for 1 hour at room temperature, and then incubated with a Goat anti-Mouse IgG (H+L) Secondary Antibody, Alexa Fluor Plus 488 conjugate (Product # A32731) at a dilution of 1:500 for at least 30 minutes at a room temperature in the dark (green). Nuclei (blue) were stained with Hoechst 33342 (Product # 62249). Images were taken on a Thermo Scientific ToxInsight Instrument at 20X magnification.



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Western Blot (2)

Epigenetics

Class I and III HDACs and loss of active chromatin features contribute to epigenetic silencing of CDX1 and EPHB tumor suppressor genes in colorectal cancer.

"35-2900 was used in western blot to investigate the epigenetic silencing of Wnt/beta-catenin targets during colorectal tumorigenesis."

Authors: Rönsch K,Jäger M,Schöpflin A,Danciu M,Lassmann S,Hecht A

Year
2011

Species
Human

The Journal of neuroscience : the official journal of the Society for Neuroscience

The EphA4 receptor regulates neuronal morphology through SPAR-mediated inactivation of Rap GTPases.

Authors: Richter M,Murai KK,Bourgin C,Pak DT,Pasquale EB

Year
2007

Species
Human
Mouse

Immunocytochemistry (1)

The Journal of neuroscience : the official journal of the Society for Neuroscience

The EphA4 receptor regulates neuronal morphology through SPAR-mediated inactivation of Rap GTPases.

Authors: Richter M,Murai KK,Bourgin C,Pak DT,Pasquale EB

Year
2007

Species
Human
Mouse

Immunoprecipitation (1)

The Journal of neuroscience : the official journal of the Society for Neuroscience

The EphA4 receptor regulates neuronal morphology through SPAR-mediated inactivation of Rap GTPases.

Authors: Richter M,Murai KK,Bourgin C,Pak DT,Pasquale EB

Year
2007

Species
Human
Mouse

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