beta-Arrestin 1,2 Polyclonal Antibody

Product Details	
Size	200 µg
Species Reactivity	Human, Rat
Published Species	Rat, Fruit fly, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic Peptide: C D(384) D I V F E D F A R L R L K(397)
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2274371

Applications	Tested Dilution	Publications
Western Blot (WB)	3 µg/mL	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	-	3 Publications
Immunoprecipitation (IP)	Assay-dependent	1 Publication

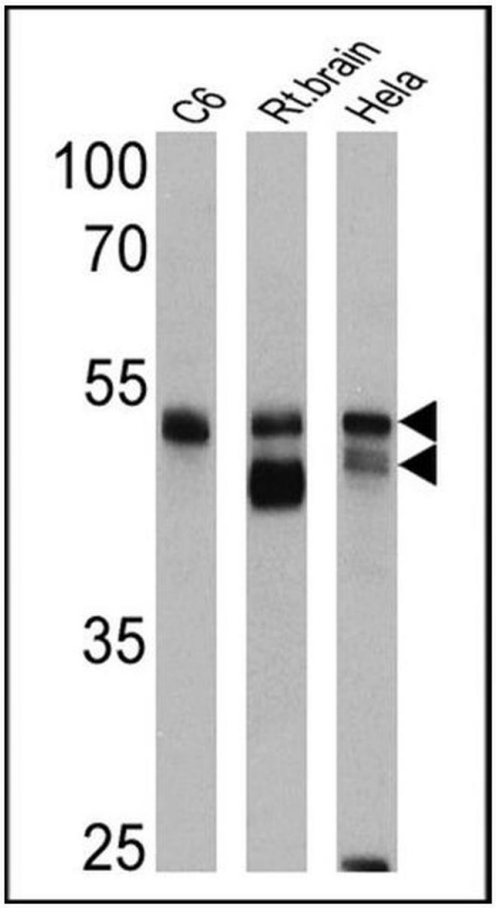
Product Specific Information

PA1-730 detects recombinant rat and human beta-arrestin and beta-arrestin2. This antibody does not detect visual or cone arrestin.

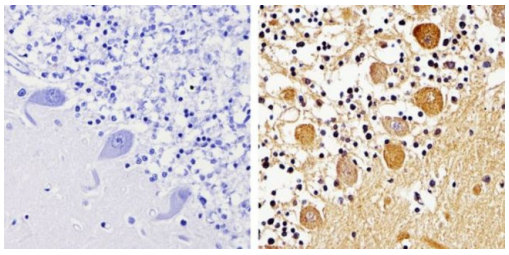
PA1-730 has been successfully used in Western blot, Immunohistochemistry (paraffin) and immunoprecipitation procedures. By Western blot, this antibody detects ~49 kDa and ~47 kDa proteins representing recombinant beta-arrestin and beta-arrestin2, respectively.

The PA1-730 immunizing peptide corresponds to amino acid residues 384-397 from human beta-arrestin2. This peptide (Cat. # PEP-156) is available for use in neutralization and control experiments.

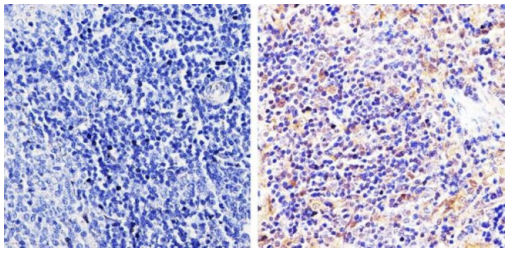
Product Images For beta-Arrestin 1,2 Polyclonal Antibody



beta-Arrestin 1,2 Antibody (PA1-730) in WB
Western blot analysis of pan Arrestin was performed by loading 25 µg of C6 (lane 1), rat brain (lane 2) and Hela (lane 3) cell lysates onto an SDS polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked at 4ºC overnight. The membrane was probed with a pan Arrestin polyclonal antibody (Product # PA1-730) at a dilution of 1:1000 overnight at 4°C, washed in TBST, and probed with an HRP-conjugated secondary antibody for 1 hr at room temperature in the dark. Chemiluminescent detection was performed using Pierce ECL Plus Western Blotting Substrate (Product # 32132). Results show a band at ~47-49 kDa.



beta-Arrestin 1,2 Antibody (PA1-730) in IHC (P)
Immunohistochemistry analysis of pan Arrestin showing staining in the cytoplasm and nucleus of paraffin-treated human cerebellum tissue (right) compared with a negative control in the absence of primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a pan Arrestin polyclonal antibody (Product # PA1-730) diluted by 3% BSA-PBS at a dilution of 1:500 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



beta-Arrestin 1,2 Antibody (PA1-730) in IHC (P)
Immunohistochemistry analysis of pan Arrestin showing staining in the cytoplasm and nucleus of paraffin-treated rat spleen tissue (right) compared with a negative control in the absence of primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a pan Arrestin polyclonal antibody (Product # PA1-730) diluted by 3% BSA-PBS at a dilution of 1:500 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

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8 References

Western Blot (4)

Journal of cell science

An intracellular activation of Smoothened that is independent of Hedgehog stimulation in *Drosophila*.

"PA1-730 was used in Western Blotting to demonstrate that inactivation of the ESCRT-III causes dramatic accumulation of Smoothened in the ESCRT-III/MVB compartment, and subsequent activation of Hedgehog signalling."

Authors: Jiang K,Liu Y,Zhang J,Jia J

Year 2018

Species Fruit fly

Dilution 1:50

Molecular pharmacology

Sequence-Specific Regulation of Endocytic Lifetimes Modulates Arrestin-Mediated Signaling at the μ Opioid Receptor.

"PA1730 was used in western blot to propose that mu opioid receptor sequences are important determinants of functional selectivity in the opioid system"

Authors: Weinberg ZY,Zajac AS,Phan T,Shiwarski DJ,Puthenveedu MA

Year 2017

Species Human

Dilution 1:1000

View more WB references on thermofisher.cn

Immunocytochemistry (3)

Developmental biology

Structure-function analysis of -arrestin Kurtz reveals a critical role of receptor interactions in downregulation of GPCR signaling in vivo.

"PA1-730 was used in Immunocytochemistry-immunoflourescence to analyse the in vivo structure and function of Kurtz within the drosophila."

Authors: Chai F,Xu W,Musoke T,Tarabelsi G,Assaad S,Freedman J,Peterson R,Piotrowska K,Byrnes J,Rogers S, Veraksa A

Year 2019

Species Human

The Journal of cell biology

Smoothened determines -arrestin-mediated removal of the G protein-coupled receptor Gpr161 from the primary cilium.

"PA1-730 was used in immunocytochemistry to analyze beta-arrestin-mediated removal of the G protein-coupled receptor Gpr161 from the primary cilium determined by Smoothened"

Authors: Pal K,Hwang SH,Somatilaka B,Badgandi H,Jackson PK,DeFea K,Mukhopadhyay S

Year 2016

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More applications with references on thermofisher.cn

IP (1)

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