

# PI3K p85 alpha Monoclonal Antibody (U5)

## Product Details

Size	200 µg
Species Reactivity	Bovine, Human, Mouse, Non-human primate, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	U5
Conjugate	Unconjugated
Immunogen	Recombinant bovine p85 alpha subunit of PI-3 kinase, expressed in Baculovirus.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2163452

Applications	Tested Dilution	Publications
Western Blot (WB)	1:100-1:1,000	8 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	-	1 Publication
Immunoprecipitation (IP)	Assay-dependent	1 Publication
Neutralization (Neu)	-	1 Publication

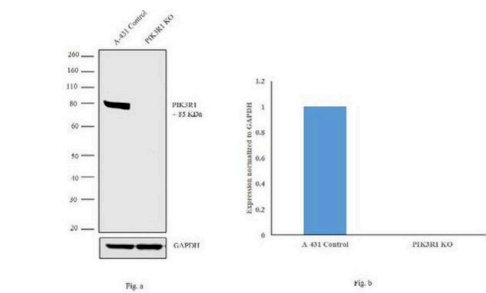
## Product Specific Information

Mouse anti PI-3 Kinase p85 Subunit alpha antibody, clone U5 recognizes the bcr-homology domain of the p85 alpha subunit of bovine PI 3 kinase.

Product Images For PI3K p85 alpha Monoclonal Antibody (U5)

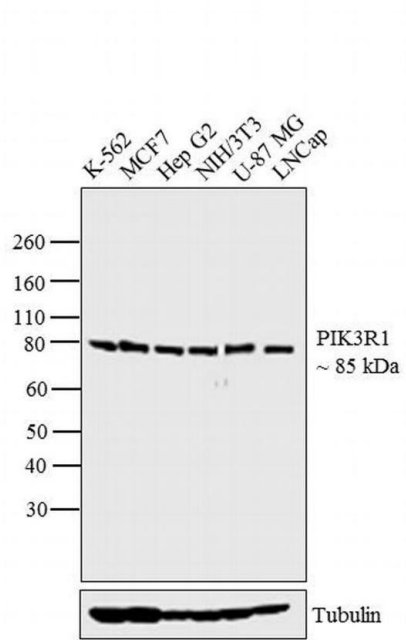
PI3K p85 alpha Antibody (MA1-74183)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. Loss of signal was observed for target protein in PIK3R1 knockout (KO) cell line using Anti-PIK3R1 mouse monoclonal antibody (Product # MA1-74183). {KO}



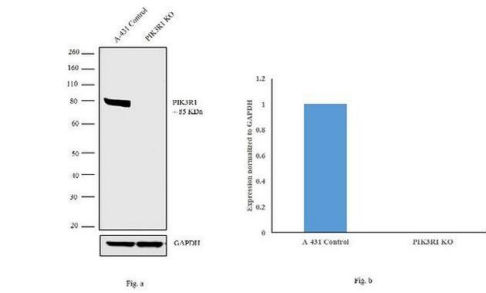
PI3K p85 alpha Antibody (MA1-74183) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of K-562 (Lane 1), MCF7 (Lane 2), Hep G2 (Lane 3), NIH/3T3 (Lane 4), U-87 MG (Lane 5) and LNCaP (Lane 6). The blot was probed with Anti-PIK3R1 Monoclonal Antibody (Product # MA1-74183, 1:500 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 85 kDa band corresponding to PIK3R1 was observed across the cell lines tested.



PI3K p85 alpha Antibody (MA1-74183) in WB

Western blot analysis of PIK3R1 (Fig. a) was performed by loading 30 µg of A-431 control (lane 1), A-431 PIK3R1 knockout (lane 2) membrane extracts. PIK3R1 was detected at 85 kDa using PIK3R1 mouse monoclonal antibody (Product # MA1-74183, 1:500 dilution) and Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody HRP conjugate (Product # A28177, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Loss of signal in CRISPR mediated knockout (KO) confirms that antibody is specific to PIK3R1.



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Western Blot (8)

<p>Clinical and experimental pharmacology &amp; physiology</p> <p><b>Nicorandil mitigates amiodarone-induced pulmonary toxicity and fibrosis in association with the inhibition of lung TGF-1/PI3K/Akt1-p /mTOR axis in rats.</b></p> <p>"Published figure using PI3K p85 alpha monoclonal antibody (Product # MA1-74183) in Western Blot"</p> <p>Authors: Harb I,Ashour H,Rashed LA,Mostafa A,Samir M,Aboulhoda BE,El-Hanbuli H,Rashwan E,Mahmoud H</p>	<p>Year 2023</p>
<p>BMC anesthesiology</p> <p><b>Propofol suppresses adipose-derived stem cell progression via PI3K /AKT-Wnt signaling pathway.</b></p> <p>"Published figure using PI3K p85 alpha monoclonal antibody (Product # MA1-74183) in Western Blot"</p> <p>Authors: Yin G,Wang J,Zhong Y,Wu W</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:500</p>

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Immunocytochemistry (1)

<p>Journal of cell science</p> <p><b>Internalization of prolactin receptor and prolactin in transfected cells does not involve nuclear translocation.</b></p> <p>"MA1-74183 was used in immunocytochemistry to investigate the mechanism for the internalization of prolactin and its receptor"</p> <p>Authors: Perrot-Applanat M,Gualillo O,Buteau H,Edery M,Kelly PA</p>	<p>Year 1997</p> <p>Species Rat</p> <p>Dilution 60 µg/mL</p>
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Immunoprecipitation (1)

<p>Cell reports</p> <p><b>Synaptic protein interaction networks encode experience by assuming stimulus-specific and brain-region-specific states.</b></p> <p>"MA1-74183 was used in Immunoprecipitation to conclude that although the PIN of the glutamatergic post-synapse is expressed widely throughout the brain, its activity-dependent dynamics show remarkable stimulus-specific and brain-region-specific diversity."</p> <p>Authors: Lautz JD,Tsegay KB,Zhu Z,Gniffke EP,Welsh JP,Smith SEP</p>	<p>Year 2021</p> <p>Species Mouse</p>
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Neu (1)

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