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PRODUCT DATASHEET

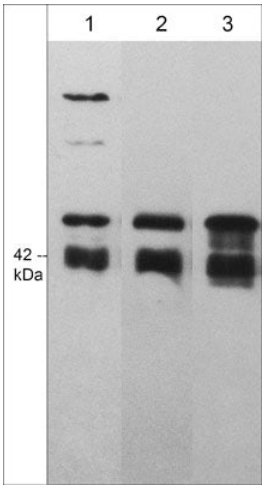
Anti-Arp3 (C-terminal region) Antibody

Product Details

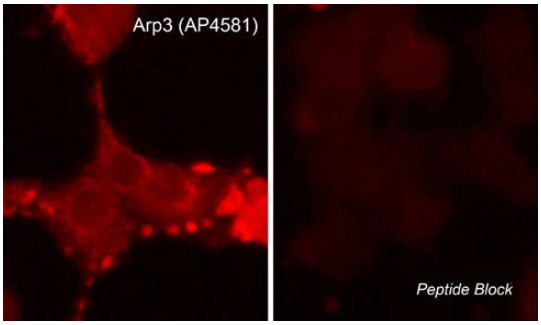
Available Variants	100 µL (SKU:AP4581)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	ACTR3
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, IHC, WB
Dilution Ranges	WB: 1:1000 IHC: 1:100 ICC: 1:250
Species Reactivity	Chicken, Frog, Human, Mouse, Rat
Immunogen	Arp3 (C-terminal region) synthetic peptide (coupled to KLH) corresponding to amino acid residues in the C-terminal region of human Arp3. This peptide sequence is highly conserved in rat, mouse, chicken, fish, and yeast Arp3 proteins.
Specificity	The antibody detects a 47 kDa* doublet corresponding to the molecular mass of Arp3 on SDS-PAGE immunoblots of human A431, Jurkat, and HeLa cells, and in rat PC12 cells.
Molecular Weight	47
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	P61158 UniProt Summary: ATP-binding component of the Arp2/3 complex, a multiprotein complex that mediates actin polymerization upon stimulation by nucleation-promoting factor (NPF). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility. Seems to contact the pointed end of the daughter actin filament. In podocytes, required for the formation of lamellipodia downstream of AVIL and PLCE1 regulation. In addition to its role in the cytoplasmic cytoskeleton, the Arp2/3 complex also promotes actin polymerization in the nucleus, thereby regulating gene transcription and repair of damaged DNA. The Arp2/3 complex promotes homologous recombination (HR) repair in response to DNA damage by promoting nuclear actin polymerization, leading to drive motility of double-strand breaks (DSBs). Plays a role in ciliogenesis.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	10096

Product Images



Western blot of human A431 (lane 1), Jurkat (lane 2), and HeLa (lane 3) cells. The blots were probed with rabbit polyclonal anti-Arp3 (C-terminal region) antibody at 1:1000 (lanes 1-3).



Immunocytochemical labeling of Arp3 in aldehyde-fixed and NP-40-permeabilized rat PC12 cells differentiated with NGF. The cells were labeled with rabbit polyclonal anti-Arp3 (C-terminal region) (AP4581) in the absence (left) or presence (right) of blocking peptide (AX4585). The antibody was detected using appropriate secondary antibody conjugated to DyLight® 594.