

Anti-ARC antibody

Cat. No.	ml221678
Package	25 µl/100 µl/200 µl
Storage	-20°C, pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol

Product overview

Description	Anti-ARC rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Fusion protein of human ARC
Reactivity	Human, Mouse, Rat
Content	0.4 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	ARC
Full name	activity-regulated cytoskeleton-associated protein

Synonyms	Arg3.1
Swissprot	Q7LC44

Target Background

Arc (for activity-regulated cytoskeleton-associated protein) is a growth factor and immediate early gene that is enriched in brain. Arc mRNA and protein levels are induced by neuronal activity, which is necessary to stimulate neuroplasticity, indicating a potential role for Arc in activity-dependent changes in dendrite function. Arc expression has been detected in neuronal cell bodies and dendrites in the hippocampus, amygdala, hypothalamus, striatum and cortex. Arc has been shown to localize to the cytoskeleton of neuronal cells and appears to colocalize with F-Actin, although it may associate with an Actin-associated protein rather than directly with F-Actin. It has been shown that cocaine-stimulated neuronal activity results in increased Arc mRNA levels in striatum.

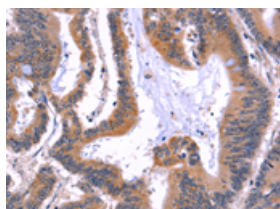
Applications

Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human colon cancer

Recommended dilution: 50-200

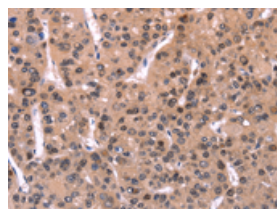


The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer tissue using ml221678(ARC Antibody) at dilution 1/50, on the right is treated with fusion protein. (Original magnification: $\times 200$)

Predicted cell location: Cytoplasm

Positive control: Human liver cancer

Recommended dilution: 50-200



The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using ml221678(ARC Antibody) at dilution 1/50, on the right is treated with fusion protein. (Original magnification: $\times 200$)

Western blotting

Predicted band size: 45 kDa

Positive control: Mouse brain tissue

Recommended dilution: 500-2000

Gel: 6%SDS-PAGE

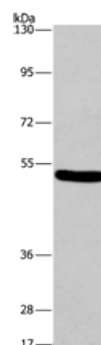
Lysate: 40 μ g

Lane: Mouse brain tissue

Primary antibody: ml221678(ARC Antibody) at dilution 1/597

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 1 minute



ELISA

Recommended dilution: 2000-5000

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