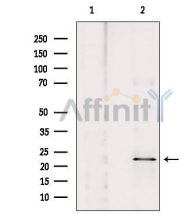
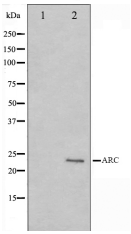
ARC Ab

Cat.#: AF0118	Concn.: 1mg/ml	Mol.Wt.: 23kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

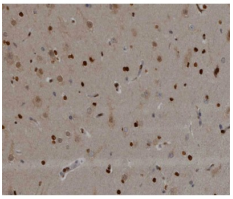
Application:	WB: 1:500~1:3000 IHC: 1:50~1:200, IF/ICC 1:100-1:500
Reactivity:	Human
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).
Specificity:	ARC Ab detects endogenous levels of total ARC.
Immunogen:	A synthesized peptide derived from human ARC.
Uniprot:	O60936
Description:	ARC Isoform 1 may be involved in RNA splicing. Interacts with TFPT. Isoform 1 oligomerizes and binds to SFRS9/SRp30C and also interacts with NPM1. Isoform 2 binds CASP2/caspase-2 and CASP8/caspase-8 and inhibits caspase-8 activity. 2 isoforms of the human protein are produced by alternative splicing.
Subcellular Location:	Cytoplasm and Nucleus > nucleolus.
Tissue Specificity:	Highly expressed in heart and skeletal muscle. Detected at low levels in placenta, liver, kidney and pancreas.
Similarity:	CARD is critical for both extrinsic and intrinsic apoptotic pathways (By similarity). CARD domain mediates a protective effect against myocardial ischemia/reperfusion, oxidative stress and TNF-induced necrosis (PubMed:15004034) (By similarity). The calcium binding domain plays a protective role in calcium-mediated cell death (PubMed:15509781).
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



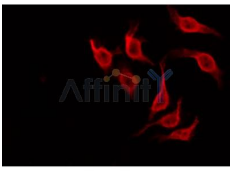
Western blot analysis of extracts from HepG2, using ARC Ab. Lane 1 was treated with the blocking peptide.



Western blot analysis on HeLa cell lysate using ARC Ab,The lane on the left is treated with the antigen-specific peptide.



AF0118 at 1/200 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



AF0118 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.