

**ARG45167**  
**Anti-C9orf72 antibody**Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes C9orf7
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	C9orf7
Species	Human
Immunogen	Synthetic peptide corresponding to N-terminal region of human C9orf7.
Conjugation	Un-conjugated
Alternate Names	Guanine nucleotide exchange C9orf72; C9orf72

### Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 <sup>6</sup> cells
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	65 kDa	

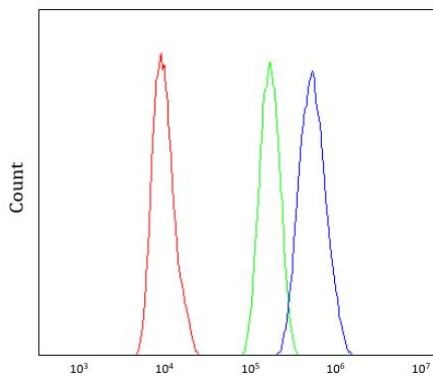
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

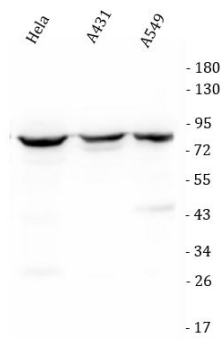
Gene Symbol	C9ORF72
Gene Full Name	C9orf72-SMCR8 complex subunit
Background	The protein encoded by this gene plays an important role in the regulation of endosomal trafficking, and has been shown to interact with Rab proteins that are involved in autophagy and endocytic transport. Expansion of a GGGGCC repeat from 2-22 copies to 700-1600 copies in the intronic sequence between alternate 5' exons in transcripts from this gene is associated with 9p-linked ALS (amyotrophic lateral sclerosis) and FTD (frontotemporal dementia) (PMID: 21944778, 21944779). Studies suggest that hexanucleotide expansions could result in the selective stabilization of repeat-containing pre-mRNA, and the accumulation of insoluble dipeptide repeat protein aggregates that could be pathogenic in FTD-ALS patients (PMID: 23393093). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2016]
Function	Component of the C9orf72-SMCR8 complex, a complex that has guanine nucleotide exchange factor (GEF) activity and regulates autophag. [UniProt]
Calculated Mw	54 kDa
Cellular Localization	Secreted; Lysosome; Endosome; Nucleus; Cytoplasm, P-body; Cytoplasm; Cell projection, axon 1; Cell projection, growth cone; Perikaryon; dendrite; Nucleus membrane; Peripheral membrane protein. [UniProt]

## Images



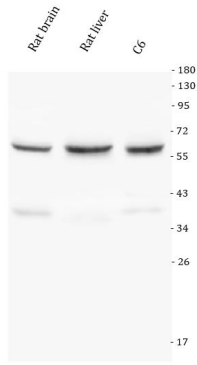
ARG45167 Anti-C9orf72 antibody FACS image

Flow Cytometry: U2OS stained with ARG45167 Anti-C9orf72 antibody at 1  $\mu\text{g}/10^6$  cells dilution.



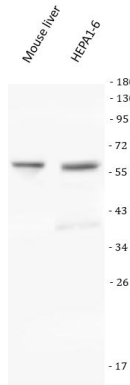
ARG45167 Anti-C9orf72 antibody WB image

Western blot: HeLa, A431, and A549 stained with ARG45167 Anti-C9orf72 antibody at 0.5  $\mu\text{g}/\text{ml}$  dilution.



#### ARG45167 Anti-C9orf72 antibody WB image

Western blot: Rat brain, rat liver, and C6 stained with ARG45167 Anti-C9orf72 antibody at 0.5  $\mu\text{g}/\text{ml}$  dilution.



#### ARG45167 Anti-C9orf72 antibody WB image

Western blot: Mouse liver and HEPA1-6 stained with ARG45167 Anti-C9orf72 antibody at 0.5  $\mu\text{g}/\text{ml}$  dilution.