

## alpha Actinin 4 Conjugated Antibody

Catalog No: #C49693



Package Size: #C49693-AF350 100ul #C49693-AF405 100ul #C49693-AF488 100ul  
 #C49693-AF555 100ul #C49693-AF594 100ul #C49693-AF647 100ul  
 #C49693-AF680 100ul #C49693-AF750 100ul #C49693-Biotin 100ul

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## Description

Product Name	alpha Actinin 4 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	actinin 4 antibody Actinin alpha 4 antibody actinin4 antibody ACTN 4 antibody ACTN4 antibody ACTN4_HUMAN antibody Alpha-actinin-4 antibody DKFZp686K23158 antibody F actin cross linking protein antibody F-actin cross-linking protein antibody Focal segmental glomerulosclerosis 1 antibody FSGS 1 antibody FSGS antibody FSGS1 antibody Non muscle alpha actinin 4 antibody Non-muscle alpha-actinin 4 antibody
Accession No.	Swiss-Prot#:O43707
Uniprot	O43707
GeneID	81;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	105 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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## Background

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The spectrin gene family encodes a diverse group of cytoskeletal proteins that include spectrins, dystrophins and  $\alpha$ -actinins. There are four tissue-specific  $\alpha$ -actinins, namely  $\alpha$ -actinin-1,  $\alpha$ -actinin-2,  $\alpha$ -actinin-3 and  $\alpha$ -actinin-4, which are localized to muscle and non-muscle cells, including skeletal, cardiac and smooth muscle cells, as well as within the cytoskeleton. Each  $\alpha$ -actinin protein contains one Actin-binding domain, two calponin-homology domains, two EF-hand domains and four spectrin repeats, through which they function as bundling proteins that can cross-link F-Actin, thus anchoring Actin to a variety of intracellular structures. Defects in the gene encoding  $\alpha$ -actinin-4 are the cause of focal segmental glomerulosclerosis 1 (FSGS1), a common renal lesion characterized by decreasing kidney function and, ultimately, renal failure. are actually sensitive to the Profilin proteins in these foods.

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Note: This product is for in vitro research use only