

**UNC45B Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2594a****Specification**

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**UNC45B Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">Q8IWX7</a>
Other Accession	<a href="#">NP_775259.1</a> , <a href="#">NP_001028748.1</a> , <a href="#">146862</a> , <a href="#">217012 (mouse)</a> , <a href="#">303373 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	103733

**UNC45B Antibody (internal region) - Additional Information****Gene ID** 146862**Other Names**

Protein unc-45 homolog B, Unc-45B, SMUNC45, UNC45B, CMYA4, UNC45

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

UNC45B Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**UNC45B Antibody (internal region) - Protein Information****Name** UNC45B ([HGNC:14304](#))**Synonyms** CMYA4, UNC45**Function**

Acts as a co-chaperone for HSP90 and is required for proper folding of the myosin motor domain. Plays a role in sarcomere formation during muscle cell development. Is necessary for normal early lens development.

**Cellular Location**

Cytoplasm, myofibril, sarcomere, Z line {ECO:0000250|UniProtKB:Q6DGE9}. Cytoplasm, myofibril, sarcomere, A band. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q6DGE9}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q8CGY6}. Note=Expressed at the Z line and in the perinuclear region of myofibrils. Translocates to the A band in response to stress conditions and fibril damage {ECO:0000250|UniProtKB:Q6DGE9}

**Tissue Location**

Expressed in eye lens tissues. Expressed in muscle (at protein level) (PubMed:33217308).

**UNC45B Antibody (internal region) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**UNC45B Antibody (internal region) - Images**

AF2594a (0.3 µg/ml) staining of Human Skeletal Muscle lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**UNC45B Antibody (internal region) - Background**

This antibody is expected to recognise both reported isoforms (NP\_775259.1 and NP\_001028748.1).

**UNC45B Antibody (internal region) - References**

The UNC-45 chaperone mediates sarcomere assembly through myosin degradation in *Caenorhabditis elegans*. Landsverk ML, Li S, Hutagalung AH, Najafov A, Hoppe T, Barral JM, Epstein HF. J Cell Biol. 2007 Apr 23;177(2):205-10. Epub 2007 Apr 16. PMID: 17438072