

## Product datasheet

# Recombinant Human Desmuslin/SYN protein ab161606

1 Image

### Description

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<b>Product name</b>	Recombinant Human Desmuslin/SYN protein
<b>Expression system</b>	Wheat germ
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	VSNVEAIRSRTQEAGALGVSDRGSWRDADSRNDQAVGV SFKASAGEGDQA HREQGKEQAMFDKKVQLQRMVDQRSVISDEKKVALLYLD NEEEENDGHWF
<b>Amino acids</b>	1466 to 1565
<b>Tags</b>	GST tag N-Terminus

### Specifications

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Our **Abpromise guarantee** covers the use of **ab161606** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	ELISA Western blot
<b>Form</b>	Liquid
<b>Additional notes</b>	This product was previously labelled as Desmuslin. This protein fragment was used as an immunogen for <b>ab89228</b> .

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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## General Info

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### Function

Type-VI intermediate filament (IF) which plays an important cytoskeletal role within the muscle cell cytoskeleton. It forms heteropolymeric IFs with desmin and/or vimentin, and via its interaction with cytoskeletal proteins alpha-dystrobrevin, dystrophin, talin-1, utrophin and vinculin, is able to link these heteropolymeric IFs to adherens-type junctions, such as to the costameres, neuromuscular junctions, and myotendinous junctions within striated muscle cells.

### Tissue specificity

Isoform 2 is strongly detected in adult heart, fetal skeletal muscles and fetal heart. Isoform 1 is weakly detected in fetal heart and also in fetal skeletal muscle. Isoform 1 and isoform 2 are detected in adult bladder (at protein level). The mRNA is predominantly expressed in heart and muscle with some expression in brain which may be due to tissue-specific isoforms.

### Sequence similarities

Belongs to the intermediate filament family.

### Developmental stage

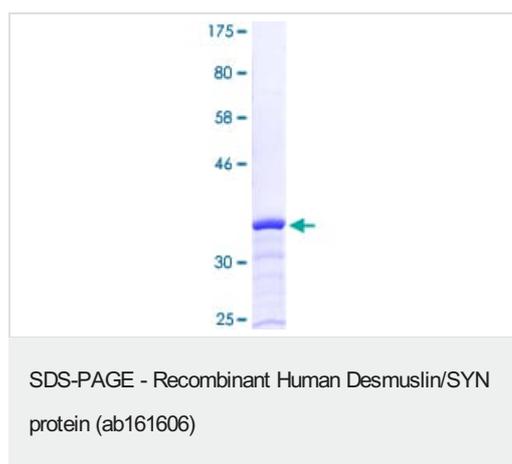
In lens, first detected at 16 weeks when expression is weakly and uniformly distributed. Subsequently, expression becomes much stronger in the epithelium of the anterior part at 25 weeks and later. In retina, weakly expressed at 15 weeks in the nerve fiber and ganglion cell layers (NFL and GCL). From 25 weeks onwards, much stronger expression is observed in the endfeet of Mueller cells, the NFL, and GCL, and much lower expression is observed in a minor subpopulation of cells in the inner cell layer (INL). At 30 and 36 weeks, expression remains in the neural retina, and subsequently becomes stronger in the NFL, GCL, and INL and is decreased in Mueller cells. At 36 weeks, also expressed at the external border of the outer nuclear layer (ONL) (at protein level).

### Cellular localization

Cytoplasm, cytoskeleton. Cell junction, adherens junction. There are at least two distinct SYNM subpopulations, one in which SYMN interacts with DES within the Z-lines, and another in which it interacts with both DTNA and DES at the costamere.

## Images

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ab161606 on a 12.5% SDS-PAGE stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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