abcam

Product datasheet

Anti-Desmin antibody ab6570

1 References

Overview

Product name	Anti-Desmin antibody
Description	Rabbit polyclonal to Desmin
Host species	Rabbit
Specificity	The antibody specifically stains the wide desmin band of 50,000 to 55,000 molecular weight in immunoblotting.
Tested applications	**Suitable for:** ICC/IF
Species reactivity	**Reacts with:** Mouse, Chicken, Cow, Human
Immunogen	Full length native protein (purified) (Chicken).
General notes	Desmin is the protein subunit of muscle-type intermediate filaments (IFs). IFs, with characteristic 10 nm diameter are a distinct class of heterogenous protein subunits apparent by both immunological and biochemical criteria. IFs differ significantly from the other cytoskeletal elements of the cell, namely microtubules & microfilaments, and are components of most eukaryotic cells. Desmin is one of the five major groups of IFs and is found in predominatly in skeletal, cardiac and smooth muscle. Rabbit Anti-Desmin may be used for immunocyto-chemical localization of intermediate filaments of the desmin group in all types of muscle cells and to localize desmin at the periphery of z-discs. The product also specifically stains desmin when used in immunoblotting.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 15mM Sodium Azide Constituents: Whole serum
Purity	Whole antiserum
Purification notes	The antiserum has been treated to remove lipo-proteins.
Primary antibody notes	Rabbit Anti-Desmin may be used for immunocyto-chemical localization of intermediate filaments of the desmin group in all types of muscle cells and to localize desmin at the periphery of z-discs. The product also specifically stains desmin when used in immunoblotting.

Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab6570** in the following tested applications.

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

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent dilution.

Target

Function	Desmin are class-III intermediate filaments found in muscle cells. In adult striated muscle they form a fibrous network connecting myofibrils to each other and to the plasma membrane from the periphery of the Z-line structures.
Involvement in disease	Defects in DES are the cause of myopathy myofibrillar desmin-related (MFM-DES) [MIM:601419]; also known as desmin-related myopathy (DRM). A neuromuscular disorder characterized by skeletal muscle weakness associated with cardiac conduction blocks, arrhythmias, restrictive heart failure, and by myofibrillar destruction with intracytoplasmic accumulation of desmin-reactive deposits in cardiac and skeletal muscle cells. Defects in DES are the cause of cardiomyopathy dilated type 1I (CMD1I) [MIM:604765]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death. Defects in DES are the cause of neurogenic scapuloperoneal syndrome Kaeser type (Kaeser syndrome) [MIM:181400]. Kaeser syndrome is an autosomal dominant disorder with a peculiar scapuloperoneal distribution of weakness and atrophy. A large clinical variability is observed ranging from scapuloperoneal, limb grindle and distal phenotypes with variable cardiac or respiratory involvement. Facial weakness, dysphagia and gynaecomastia are frequent additional symptoms. Affected men seemingly bear a higher risk of sudden, cardiac death as compared to affected women. Histological and immunohistochemical examination of muscle biopsy specimens reveal a wide spectrum of findings ranging from near normal or unspecific pathology to typical, myofibrillar changes with accumulation of desmin.
Sequence similarities	Belongs to the intermediate filament family.
Cellular localization	Cytoplasm.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish

- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit http://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors