

Product datasheet

Anti-Actin antibody ab209857

4 Images

Overview

Product name	Anti-Actin antibody
Description	Rabbit polyclonal to Actin
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, IHC - Wholemount, IHC
Species reactivity	Reacts with: Zebrafish
Immunogen	Recombinant fragment within Zebrafish Actin aa 2-179. The exact sequence is proprietary. Database link: Q4KMI
Positive control	Whole zebrafish extract; 1 day-post-fertilization zebrafish embryo; zebrafish tissue; zebrafish embryo tail section.

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin Constituents: PBS, 20% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab209857** in the following tested applications.

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

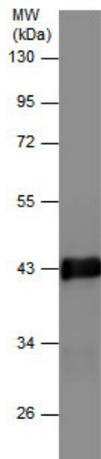
Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 42 kDa.

Application	Abreviews	Notes
IHC-P		1/100 - 1/1000. Suggested antigen retrieval using 1mM EDTA-NaOH (pH8.0) 95C,1Hr
IHC - Wholemount		1/50 - 1/500.
IHC		1/100 - 1/1000.

Target

Function	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.
Involvement in disease	<p>Defects in ACTA1 are the cause of nemaline myopathy type 3 (NEM3) [MIM:161800]. A form of nemaline myopathy. Nemaline myopathies are muscular disorders characterized by muscle weakness of varying severity and onset, and abnormal thread-or rod-like structures in muscle fibers on histologic examination. The phenotype at histological level is variable. Some patients present areas devoid of oxidative activity containg (cores) within myofibers. Core lesions are unstructured and poorly circumscribed.</p> <p>Defects in ACTA1 are a cause of myopathy congenital with excess of thin myofilaments (MPCETM) [MIM:161800]. A congenital muscular disorder characterized at histological level by areas of sarcoplasm devoid of normal myofibrils and mitochondria, and replaced with dense masses of thin filaments. Central cores, rods, ragged red fibers, and necrosis are absent.</p> <p>Defects in ACTA1 are a cause of congenital myopathy with fiber-type disproportion (CFTD) [MIM:255310]; also known as congenital fiber-type disproportion myopathy (CFTDM). CFTD is a genetically heterogeneous disorder in which there is relative hypotrophy of type 1 muscle fibers compared to type 2 fibers on skeletal muscle biopsy. However, these findings are not specific and can be found in many different myopathic and neuropathic conditions.</p>
Sequence similarities	Belongs to the actin family.
Cellular localization	Cytoplasm > cytoskeleton.

Images

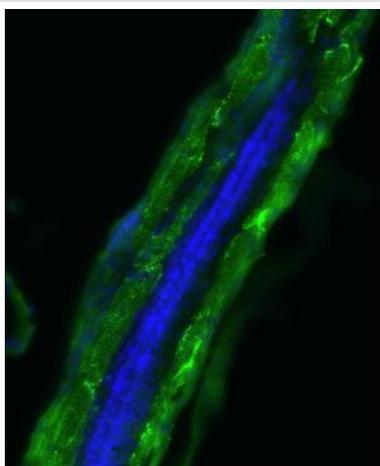


Western blot - Anti-Actin antibody (ab209857)

Anti-Actin antibody (ab209857) at 1/1000 dilution + whole zebrafish extract at 30 μ g

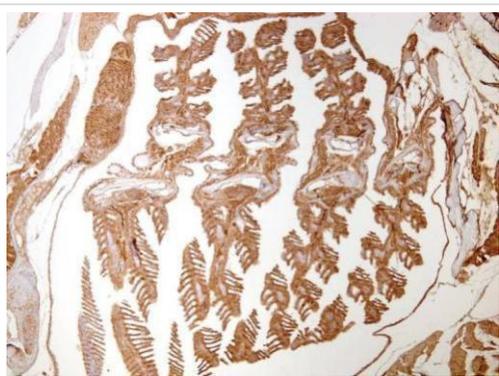
Predicted band size: 42 kDa

10% SDS-PAGE



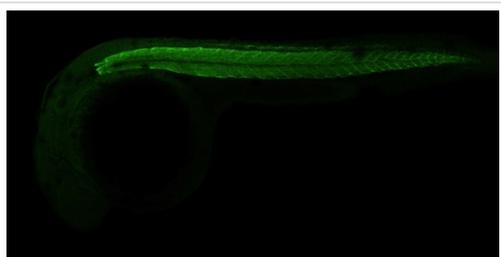
Immunohistochemistry - Anti-Actin antibody (ab209857)

Immunohistochemical analysis of agarose-embedded Zebrafish embryo tail section labeling Actin with ab209857 at 1/200 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Actin antibody (ab209857)

Immunohistochemical analysis of paraffin-embedded zebrafish tissue labeling Actin with ab209857 at 1/300 dilution.



IHC - Wholemout - Anti-Actin antibody (ab209857)

Whole mount immunohistochemical analysis of of 1 day-post-fertilization zebrafish embryo labeling Actin with ab209857 at 1/50 dilution.

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