abcam

Product datasheet

Anti-MEC2 antibody ab22181

1 Image

Overview

Product name	Anti-MEC2 antibody
Description	Mouse polyclonal to MEC2
Host species	Mouse
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Caenorhabditis elegans
Immunogen	Fusion protein: GSVKVETRLVSNERSSSIQQEGAMLPSSSSKDDDLLS TSSDEVENMATRT LQQLEESTSIISANSDDDSVKKEKQAEKDVEKGNGKE EKANIQNEFGVCG , corresponding to amino acids 19/118 of Caenorhabditis elegans MEC2 Run BLAST with Run BLAST with
General notes	Produced from outbred CD1 mice This antibody was raised by a genetic immunization technique. Genetic immunization can be used to generate antibodies by directly delivering antigen-coding DNA into the animal, rather than injecting a protein or peptide (Tang *et al.* PubMed: 1545867; Chambers and Johnston PubMed: 12910245; Barry and Johnston PubMed: 9234514). The animal`s cells produce the protein, which stimulates the animal`s immune system to produce antibodies against that particular protein. A vector coding for a partial fusion protein was used for genetic immunisation of a mouse and the resulting serum was tested in Western blot against an *E.coli* lysate containing that partial fusion protein. Genetic immunization offers enormous advantages over the traditional protein-based immunization method. DNA is faster, cheaper and easier to produce and can be produced by standard techniques readily amenable to automation. Furthermore, the antibodies generated by genetic immunization are usually of superior quality with regard to specificity, affinity and recognizing the native protein.

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.

Storage buffer	Constituent: 50% Glycerol
Purity	Whole antiserum
Primary antibody notes	This antibody was raised by a genetic immunization technique. Genetic immunization can be used to generate antibodies by directly delivering antigen-coding DNA into the animal, rather than injecting a protein or peptide (Tang *et al.* PubMed: 1545867; Chambers and Johnston PubMed: 12910245; Barry and Johnston PubMed: 9234514). The animal`s cells produce the protein, which stimulates the animal`s immune system to produce antibodies against that particular protein. A vector coding for a partial fusion protein was used for genetic immunisation of a mouse and the resulting serum was tested in Western blot against an *E.coli* lysate containing that partial fusion protein. Genetic immunization offers enormous advantages over the traditional protein-based immunization method. DNA is faster, cheaper and easier to produce and can be produced by standard techniques readily amenable to automation. Furthermore, the antibodies generated by genetic immunization are usually of superior quality with regard to specificity, affinity and recognizing the native protein.
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab22181** in the following tested applications.

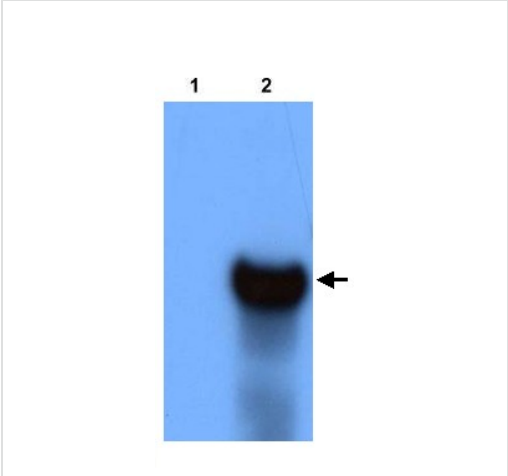
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 52 kDa. This antibody has been tested in Western blot against an *E.coli* lysate containing the partial recombinant fusion protein used as an immunogen. We have no data on detection of endogenous protein.

Target

Relevance	MEC2 positively regulates the activity of the putative mechanosensory transduction channel. It may link the mechanosensory channel and the microtubule cytoskeleton of the touch receptor neurons. It is required for the function of a set of six touch receptor neurons.
Cellular localization	Cell Membrane

Images



Western blot - Anti-MEC2 antibody (ab22181)

All lanes : Anti-MEC2 antibody (ab22181) at 1/1000 dilution

Lane 1 : Total protein extract from E. coli with ~50ng to 100ng of a negative control fusion protein with an irrelevant antigen at 20 ug
Lane 2 : Total protein extract from E. coli with ~50ng to 500ng of the
antigen fusion protein at 20 ug

Secondary
All lanes : Rabbit anti-mouse IgG + IgM, (H+L) horseradish peroxidase conjugated at
1/5000 dilution

Predicted band size: 52 kDa

The molecular weight of the band on the western blot does not correspond to the predicted band size above (predicted from the molecular weight of the natural protein) because of the additional mass of the fusion and because the fusion protein only contains a partial fragment of the gene.

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