

## Product datasheet

# Anti-MEC2 antibody ab22181

1 Image

### Overview

<b>Product name</b>	Anti-MEC2 antibody
<b>Description</b>	Mouse polyclonal to MEC2
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Caenorhabditis elegans
<b>Immunogen</b>	Fusion protein: GSVKVVETRLVSNERSSSSIQQEGAMLPSSSSKDDDLLSTSSDEVENMATRT LQQLEESTSIISANSDDDSVKKEKQAEKDVEKGNGKEEKANIQNEFGVCG , corresponding to amino acids 19/118 of Caenorhabditis elegans MEC2 <div style="text-align: right;"> <a href="#">Run BLAST with</a>      <a href="#">Run BLAST with</a> </div>

**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

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	Constituents: 50% Glycerol
<b>Purity</b>	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 <i>E.coli</i> lysate containing the partial recombinant fusion protein used as an immunogen. We have no data on detection of endogenous protein.

---

## Target

---

### Relevance

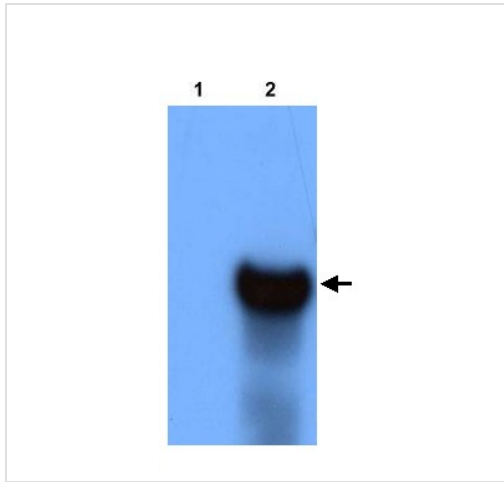
MEC2 positively regulates the activity of the putative mechanosensory transduction channel. It may link the mechanosensory channel and the microtubule cytoskeleton of the touch receptor neurons. It is required for the function of a set of six touch receptor neurons.

### 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.

**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