

Product datasheet

Anti-MCM8 antibody ab57829

1 Image

Overview

|                            |  |
|----------------------------|--|
| <b>Product name</b>        | Anti-MCM8 antibody   |
| <b>Description</b>         | Mouse monoclonal to MCM8   |
| <b>Tested applications</b> | <b>Suitable for:</b> WB  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human  |
| <b>Immunogen</b>           | Recombinant fragment: TYSDEFGNLD FERSQHGSGM SNRSTAKRFI SALNNVAERT YNNIFQFHQL RQIAKELNIQ VADFENFIGS LNDQGYLLKK GPKVYQLQTM , corresponding to amino acids 646-735 of Human MCM8<br><a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a> |

Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. |
| <b>Storage buffer</b>       | Preservative: None<br>PBS, pH 7.2   |
| <b>Purity</b>               | Protein G purified  |
| <b>Clonality</b>            | Monoclonal  |
| <b>Isotype</b>              | IgG1  |
| <b>Light chain type</b>     | kappa   |

Applications

Our [Abpromise guarantee](#) covers the use of **ab57829** 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

**Application notes** WB: Use at a concentration of 1-5 µg/ml.

This antibody has only been tested in WB against the recombinant fragment used as

immunogen. We have no data on the detection of endogenous protein.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

## Target

### Function

Component of the MCM8-MCM9 complex, a complex involved in homologous recombination repair following DNA interstrand cross-links and plays a key role during gametogenesis. The MCM8-MCM9 complex probably acts as a hexameric helicase downstream of the Fanconi anemia proteins BRCA2 and RAD51 and is required to process aberrant forks into homologous recombination substrates and to orchestrate homologous recombination with resection, fork stabilization and fork restart. May also play a non-essential for DNA replication: may be involved in the activation of the prereplicative complex (pre-RC) during G(1) phase by recruiting CDC6 to the origin recognition complex (ORC). Binds chromatin throughout the cell cycle.

### Tissue specificity

Highest levels in placenta, lung and pancreas. Low levels in skeletal muscle and kidney. Expressed in various tumors with highest levels in colon and lung cancers.

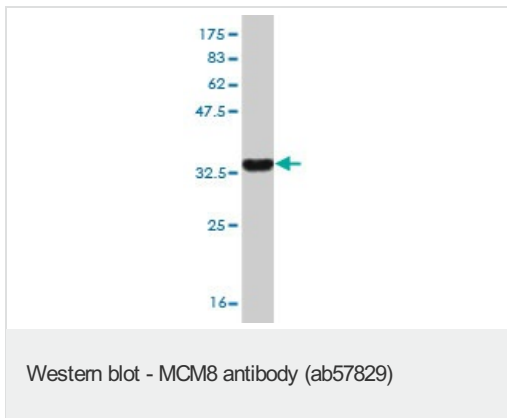
### Sequence similarities

Belongs to the MCM family.  
Contains 1 MCM domain.

### Cellular localization

Nucleus. Localizes to nuclear foci and colocalizes with RAD51.

## Anti-MCM8 antibody images



Western blot against tagged recombinant protein immunogen using ab57829 MCM8 antibody at 1ug/ml. Predicted band size of immunogen is 33 kDa

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