

Product datasheet

Anti-Mus81 antibody [MTA30 2G10/3] α b14387

★★★★★ [11 Abreviews](#) [55 References](#) [2 Images](#)

Overview

Product name	Anti-Mus81 antibody [MTA30 2G10/3]
Description	Mouse monoclonal [MTA30 2G10/3] to Mus81
Host species	Mouse
Tested applications	Suitable for: WB, Flow Cyt
Species reactivity	Reacts with: Human Does not react with: Mouse
Immunogen	Mus81 protein.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: 99.98% PBS
Purity	Protein A purified
Purification notes	from TCS
Clonality	Monoclonal
Clone number	MTA30 2G10/3
Myeloma	Sp2/0-Ag14
Isotype	IgG2a

Applications

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab14387 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	★★★★★ (7)	1/1000. Detects a band of approximately 64 kDa (predicted molecular weight: 66 kDa). Tested on both recombinant protein and whole cell extract.
Flow Cyt		Use 0.5µg for 10 ⁶ cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Target

Function

Interacts with EME1 and EME2 to form a DNA structure-specific endonuclease with substrate preference for branched DNA structures with a 5'-end at the branch nick. Typical substrates include 3'-flap structures, replication forks and nicked Holliday junctions. May be required in mitosis for the processing of stalled or collapsed replication forks.

Tissue specificity

Widely expressed.

Sequence similarities

Belongs to the XPF family.
Contains 1 ERCC4 domain.

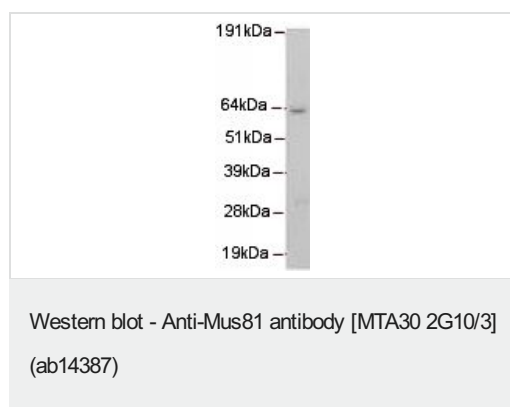
Developmental stage

Expressed in S phase and G2 phase.

Cellular localization

Nucleus > nucleolus. Recruited to foci of DNA damage in S-phase cells.

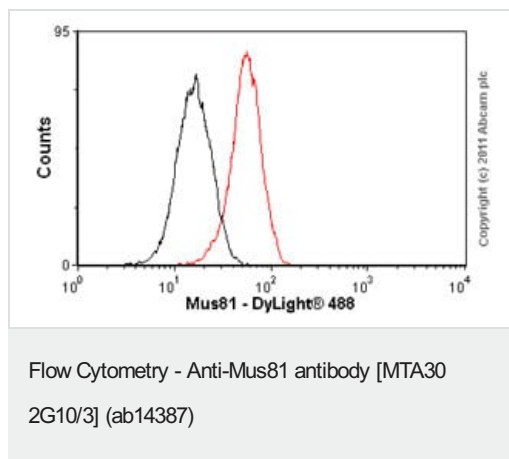
Images



Anti-Mus81 antibody [MTA30 2G10/3] (ab14387) at 1/1000 dilution
+ HeLa cell lysate

Predicted band size: 66 kDa

Observed band size: 64 kDa



Overlay histogram showing HeLa cells stained with ab14387 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab14387, 0.5µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] ([ab91361](#), 1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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