

MTMR15 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5247a

Specification

MTMR15 Antibody (N-term) - Product Information

Application	WB, FC,E
Primary Accession	O9Y2M0
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	146-174

MTMR15 Antibody (N-term) - Additional Information

Gene ID 22909

Other Names

Fanconi-associated nuclease 1, 3121-, FANCD2/FANCI-associated nuclease 1, Myotubularin-related protein 15, FAN1, KIAA1018, MTMR15, MTMRF

Target/Specificity

This MTMRF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 146-174 amino acids from the N-terminal region of human MTMRF.

Dilution

WB~~1:1000
FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MTMR15 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MTMR15 Antibody (N-term) - Protein Information

Name FAN1 {ECO:0000303|PubMed:20603015}

Function Nuclease required for the repair of DNA interstrand cross- links (ICL) recruited at sites of DNA damage by monoubiquitinated FANCD2. Specifically involved in repair of ICL-induced DNA

breaks by being required for efficient homologous recombination, probably in the resolution of homologous recombination intermediates (PubMed:[20603015](#), PubMed:[20603016](#), PubMed:[20603073](#), PubMed:[20671156](#), PubMed:[24981866](#), PubMed:[25430771](#)). Not involved in DNA double-strand breaks resection (PubMed:[20603015](#), PubMed:[20603016](#)). Acts as a 5'-3' exonuclease that anchors at a cut end of DNA and cleaves DNA successively at every third nucleotide, allowing to excise an ICL from one strand through flanking incisions. Probably keeps excising with 3'-flap annealing until it reaches and unhooks the ICL (PubMed:[25430771](#)). Acts at sites that have a 5'-terminal phosphate anchor at a nick or a 1- or 2-nucleotide flap and is augmented by a 3' flap (PubMed:[25430771](#)). Also has endonuclease activity toward 5'-flaps (PubMed:[20603015](#), PubMed:[20603016](#), PubMed:[24981866](#)).

Cellular Location

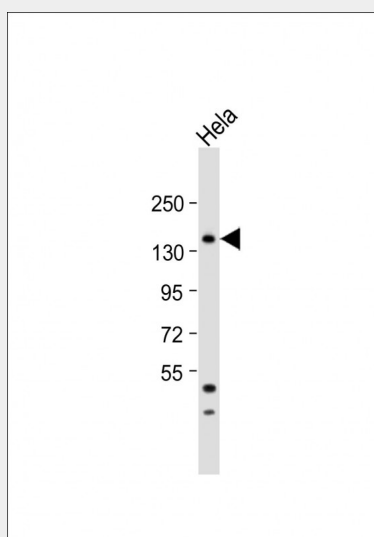
Nucleus Note=Localizes at sites of DNA damage following recruitment by monoubiquitinated FANCD2 (PubMed:[20603015](#), PubMed:[20603016](#)). Localizes to stalled replication forks via its UBZ4-type zinc finger (PubMed:[20935496](#)).

MTMR15 Antibody (N-term) - Protocols

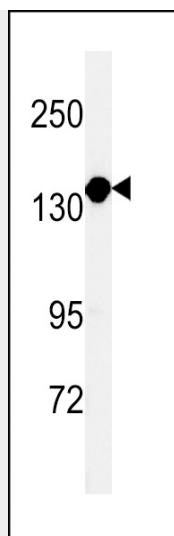
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

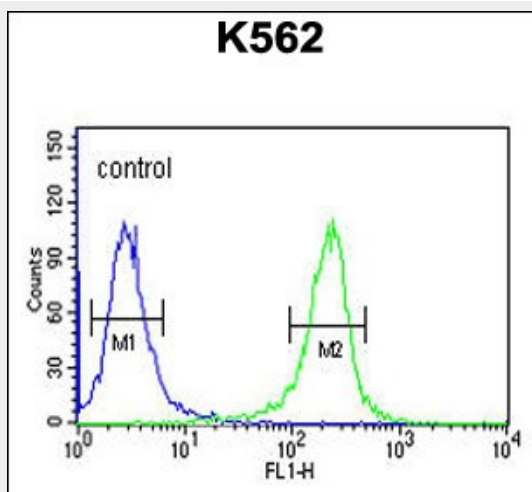
MTMR15 Antibody (N-term) - Images



Anti-MTMR15 Antibody (N-term) at 1:1000 dilution + HeLa whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 114 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of MTMRF Antibody (N-term) (Cat. #AP5247a) in K562 cell line lysates (35ug/lane). MTMRF (arrow) was detected using the purified Pab.



MTMRF Antibody (N-term) (Cat. #AP5247a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

MTMR15 Antibody (N-term) - Background

MTMRF encodes a member of the myotubularin-related class 1 cysteine-based protein tyrosine phosphatases. The encoded protein may be catalytically inactive.

MTMR15 Antibody (N-term) - References

- Kimura, K., et al. Genome Res. 16(1):55-65(2006)
- Suzuki, Y., et al. Genome Res. 14(9):1711-1718(2004)
- Alonso, A., et al. Cell 117(6):699-711(2004)