

Mbtd1 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI13197**Specification**

Mbtd1 antibody - middle region - Product Information

Application	WB
Primary Accession	Q6P5G3
Other Accession	NM_134012 , NP_598773
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rabbit, Pig, Chicken, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	71kDa KDa

Mbtd1 antibody - middle region - Additional Information**Gene ID** 103537

Alias Symbol	AA408199, AI194990, hemp
Other Names	
MBT domain-containing protein 1, Mbtd1	

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-Mbtd1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

Mbtd1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Mbtd1 antibody - middle region - Protein Information**Name** Mbtd1 {ECO:0000312|MGI:MGI:2143977}**Function**

Chromatin reader component of the NuA4 histone acetyltransferase complex, a multiprotein complex involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. The NuA4 complex plays a direct role in repair of DNA double-strand breaks (DSBs) by promoting homologous recombination (HR). MBTD1 specifically recognizes and binds monomethylated and dimethylated 'Lys-20' on histone H4 (H4K20me1 and H4K20me2, respectively). In the NuA4 complex, MBTD1 promotes recruitment of the complex to H4K20me marks by competing with TP53BP1 for binding to H4K20me. Following recruitment to

H4K20me at DNA breaks, the NuA4 complex catalyzes acetylation of 'Lys-15' on histone H2A (H2AK15), blocking the ubiquitination mark required for TP53BP1 localization at DNA breaks, thereby promoting homologous recombination (HR).

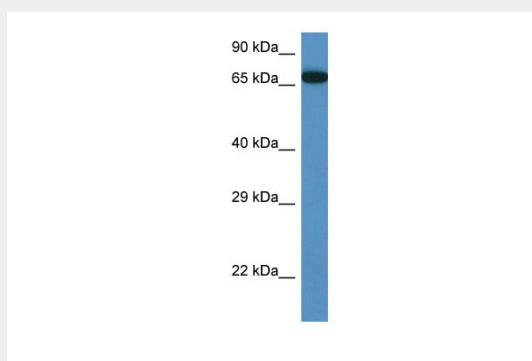
Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q05BQ5}. Chromosome {ECO:0000250|UniProtKB:Q05BQ5}

Mbtd1 antibody - middle region - 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](#)

Mbtd1 antibody - middle region - Images

WB Suggested Anti-Mbtd1 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Pancreas

Mbtd1 antibody - middle region - References

Church D.M., et al. PLoS Biol. 7:E1000112-E1000112(2009).
Park J., et al. Mol. Cell 50:919-930(2013).