

Dom3z antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI13365**Specification**

Dom3z antibody - N-terminal region - Product Information

Application	WB
Primary Accession	Q6MG77
Other Accession	NM_212497 , NP_997662
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43kDa kDa

Dom3z antibody - N-terminal region - Additional Information**Gene ID** 361799**Alias Symbol** MGC95256**Other Names**

Decapping and exoribonuclease protein, DXO, 3.1.13.-, 3.6.1.-, Dom-3 homolog Z, Dxo, Dom3z

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-Dom3z 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

Dom3z antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Dom3z antibody - N-terminal region - Protein Information**Name** Dxo {ECO:0000312|RGD:1303267}**Function**

Decapping enzyme for NAD-capped RNAs: specifically hydrolyzes the nicotinamide adenine dinucleotide (NAD) cap from a subset of RNAs by removing the entire NAD moiety from the 5'-end of an NAD-capped RNA. The NAD-cap is present at the 5'-end of some RNAs and snoRNAs. In contrast to the canonical 5'-end N7 methylguanosine (m7G) cap, the NAD cap promotes mRNA decay (By similarity). Preferentially acts on NAD- capped transcripts in response to environmental stress (By similarity). Also acts as a non-canonical decapping enzyme that removes the entire cap structure of m7G capped or incompletely capped RNAs and mediates their subsequent

degradation. Specifically degrades pre-mRNAs with a defective 5'-end m7G cap and is part of a pre-mRNA capping quality control. Has decapping activity toward incomplete 5'-end m7G cap mRNAs such as unmethylated 5'-end-capped RNA (cap0), while it has no activity toward 2'-O-ribose methylated m7G cap (cap1). In contrast to canonical decapping enzymes DCP2 and NUDT16, which cleave the cap within the triphosphate linkage, the decapping activity releases the entire cap structure GpppN and a 5'-end monophosphate RNA. Also has 5'-3' exoribonuclease activities: The 5'-end monophosphate RNA is then degraded by the 5'-3' exoribonuclease activity, enabling this enzyme to decap and degrade incompletely capped mRNAs. Also possesses RNA 5'-pyrophosphohydrolase activity by hydrolyzing the 5'-end triphosphate to release pyrophosphates (By similarity). Exhibits decapping activity towards FAD-capped RNAs (By similarity). Exhibits decapping activity towards dpCoA-capped RNAs in vitro (By similarity).

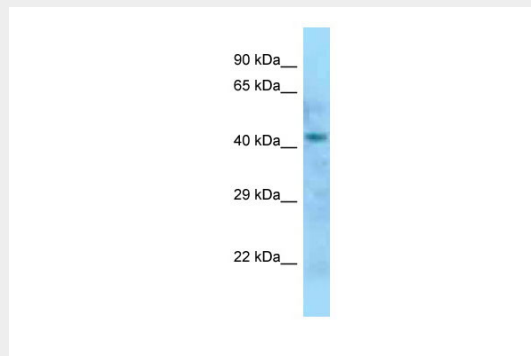
Cellular Location

Nucleus {ECO:0000250|UniProtKB:O77932}.

Dom3z antibody - N-terminal 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](#)

Dom3z antibody - N-terminal region - Images

WB Suggested Anti-Dom3z Antibody Titration: 1.0 µg/ml
Positive Control: Rat Liver

Dom3z antibody - N-terminal region - References

Hurt P., et al. Genome Res. 14:631-639(2004).