

DOM3Z Antibody (N-term Y88)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6635a**Specification**

DOM3Z Antibody (N-term Y88) - Product Information

Application	WB, FC,E
Primary Accession	O77932
Other Accession	Q6MG77 , Q70348 , Q5E9Y5
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	44929
Antigen Region	73-99

DOM3Z Antibody (N-term Y88) - Additional Information**Gene ID** 1797**Other Names**

Decapping and exoribonuclease protein, DXO, 3113-, 361-, Dom-3 homolog Z, DXO, DOM3L, DOM3Z, NG6

Target/Specificity

This DOM3Z antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 73-99 amino acids from the N-terminal region of human DOM3Z.

DilutionWB~~1:1000
FC~~1:10~50**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

DOM3Z Antibody (N-term Y88) is for research use only and not for use in diagnostic or therapeutic procedures.

DOM3Z Antibody (N-term Y88) - Protein Information**Name** DXO {ECO:0000303|PubMed:29601584, ECO:0000312|HGNC:HGNC:2992}

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 (PubMed:[28283058](#)). The NAD-cap is present at the 5'-end of some RNAs and snoRNAs (PubMed:[28283058](#)). In contrast to the canonical 5'-end N7 methylguanosine (m7G) cap, the NAD cap promotes mRNA decay (PubMed:[28283058](#)). Preferentially acts on NAD-capped transcripts in response to environmental stress (PubMed:[31101919](#)). 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 (By similarity). Specifically degrades pre-mRNAs with a defective 5'-end m7G cap and is part of a pre-mRNA capping quality control (By similarity). 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) (PubMed:[29601584](#)). 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 (By similarity). 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 (PubMed:[29601584](#)). Also possesses RNA 5'-pyrophosphohydrolase activity by hydrolyzing the 5'-end triphosphate to release pyrophosphates (By similarity). Exhibits decapping activity towards FAD-capped RNAs (PubMed:[32374864](#)). Exhibits decapping activity towards dpCoA-capped RNAs in vitro (By similarity).

Cellular Location

Nucleus

Tissue Location

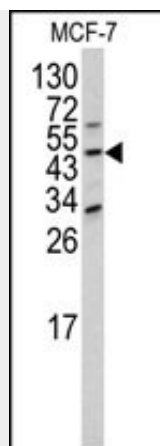
Ubiquitously expressed.

DOM3Z Antibody (N-term Y88) - Protocols

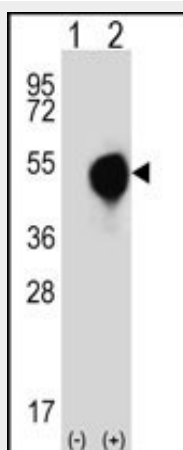
Provided below are standard protocols that you may find useful for product applications.

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

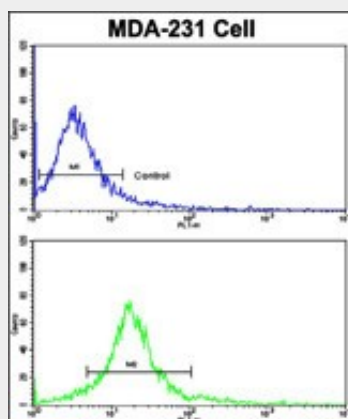
DOM3Z Antibody (N-term Y88) - Images



Western blot analysis of DOM3Z antibody (N-term Y88) (Cat. #AP6635a) in MCF-7 cell line lysates (35ug/lane). DOM3Z (arrow) was detected using the purified Pab.



Western blot analysis of DOM3Z (arrow) using rabbit polyclonal DOM3Z Antibody (N-term Y88) (Cat. #AP6635a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the DOM3Z gene.



Flow cytometric analysis of MDA-231 cells using DOM3Z Antibody (N-term Y88)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

DOM3Z Antibody (N-term Y88) - Background

The function of DOM3Z is unknown, but its ubiquitous expression and conservation in both simple and complex eukaryotes suggests that its gene may be a housekeeping gene.

DOM3Z Antibody (N-term Y88) - References

Lehner,B., Genome Res. 14 (7), 1315-1323 (2004)