

Product Datasheet

ZMPSTE24 Antibody NB100-2387

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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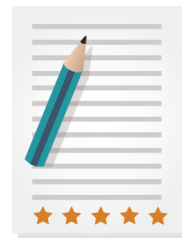
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NB100-2387**ZMPSTE24 Antibody**

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Glycine, 0.15 M NaCl
Target Molecular Weight	54 kDa

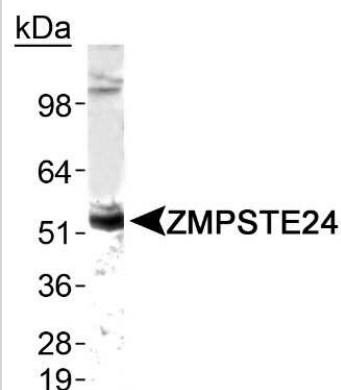
Product Description	
Host	Rabbit
Gene ID	10269
Gene Symbol	ZMPSTE24
Species	Human, Mouse, Zebrafish
Immunogen	A synthetic peptide made to an N-terminal portion of the human ZMPSTE24 protein sequence (between residues 1-100). [Swiss-Prot: O75844]

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1.0-2.0 ug/ml, Immunocytochemistry/ Immunofluorescence
Application Notes	In Western Blot, a band is seen at ~54 kDa representing ZMPSTE24 protein.

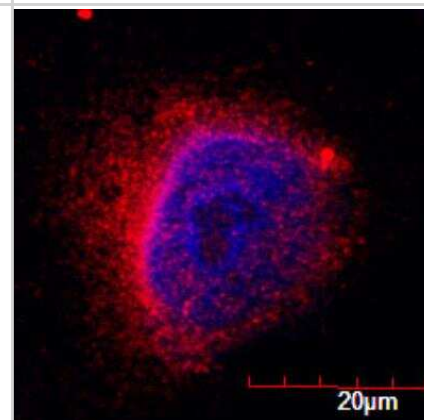


Images

Western Blot: ZMPSTE24 Antibody [NB100-2387] - Detection of ZMPSTE24 in human testis.



Immunocytochemistry/Immunofluorescence: ZMPSTE24 Antibody [NB100-2387] - Analysis of ZMPSTE24 in A549 cells using anti-ZMPSTE24 antibody. Image from verified customer review.



Publications

Ponnusamy S, Zhang H, Kadam P et al. Membrane proteins of human fetal primitive nucleated red blood cells J Proteomics 2012-07-25 [PMID: 22842289] (ICC/IF, Human)

Coffinier, C et al. HIV protease inhibitors block the zinc metalloproteinase ZMPSTE24 and lead to an accumulation of prelamin A in cells. Proc Natl Acad Sci U S A;104(33):13432-7. 2007-08-14 [PMID: 17652517]

Procedures

Western Blot protocol for ZMPSTE24 Antibody (NB100-2387)

ZMPSTE24 Antibody:

Western Blot Protocol

1. Perform SDS-PAGE (4-12%) on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH₂O and then stain the blot using ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% non-fat dry milk + 1% BSA in TBS overnight at 4 degrees Celcius.
6. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-ZMPSTE24 primary antibody (NB100-2387) in blocking buffer and incubate 1 hour at RT.
8. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (we used BioFX Super Plus ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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