

# Product Datasheet

## ZMPSTE24 Antibody - BSA Free NB100-2388

Unit Size: 0.1 ml

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

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**NB100-2388**

ZMPSTE24 Antibody - BSA Free

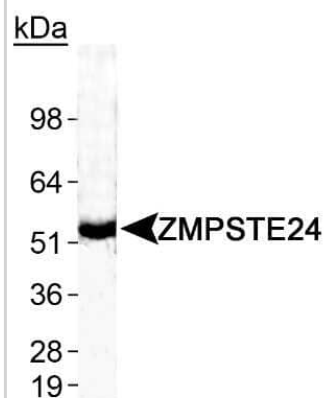
| Product Information     |  |
|-------------------------|--|
| Unit Size               | 0.1 ml   |
| Concentration           | 1.0 mg/ml  |
| Storage                 | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles. |
| Clonality               | Polyclonal   |
| Preservative            | 0.05% Sodium Azide   |
| Isotype                 | IgG  |
| Purity                  | Immunogen affinity purified                                  |
| Buffer                  | PBS  |
| Target Molecular Weight | 54 kDa   |

| Product Description |  |
|---------------------|--|
| Host                | Rabbit   |
| Gene ID             | 10269  |
| Gene Symbol         | ZMPSTE24   |
| Species             | Human  |
| Immunogen           | A synthetic peptide made to a C-terminal portion of the human ZMPSTE24 protein sequence (between residues 400-475). [Swiss-Prot# O75844] |

| Product Application Details |   |
|-----------------------------|---|
| Applications                | Western Blot  |
| Recommended Dilutions       | Western Blot 2 ug/ml  |
| Application Notes           | This ZMPSTE24 antibody is useful for Western Blot, where a band is seen at ~54 kDa representing ZMPSTE24 protein. |

**Images**

Western Blot: ZMPSTE24 Antibody [NB100-2388] - Detection of ZMPSTE24 in human testis.

**Publications**

Brayson D, Shanahan CM Lamin A precursor localizes to the Z-disc of sarcomeres in the heart and is dynamically regulated in muscle cell differentiation Philosophical transactions of the Royal Society of London. Series B, Biological sciences 2022-11-21 [PMID: 36189817] (WB, Mouse)

Details:  
Dilution used in WB 1:200

## Procedures

### Western Blot protocol for ZMPSTE24 Antibody (NB100-2388)

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 dH<sub>2</sub>O 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 dH<sub>2</sub>O 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 (NB 100-2388) in blocking buffer and incubate 1 hour at RT.
8. Rinse the membrane in dH<sub>2</sub>O 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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### **Products Related to NB100-2388**

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|                     |   |
|---------------------|---|
| NB820-59266         | Human Testis Whole Tissue Lysate (Adult Whole Normal) |
| NB100-2388PEP-0.1mg | ZMPSTE24 Antibody Blocking Peptide                    |
| HAF008              | Goat anti-Rabbit IgG Secondary Antibody [HRP]         |
| NB7160              | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]   |
| NBP2-24891          | Rabbit IgG Isotype Control                            |

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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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