# Product Datasheet

## PIM1 Antibody - BSA Free

## NBP2-31366

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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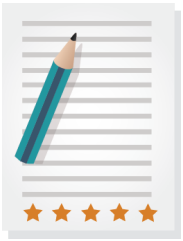


# NBP2-31366

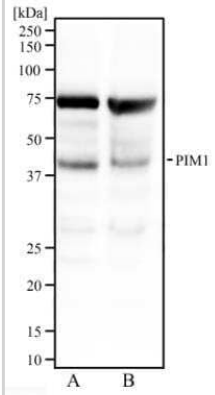
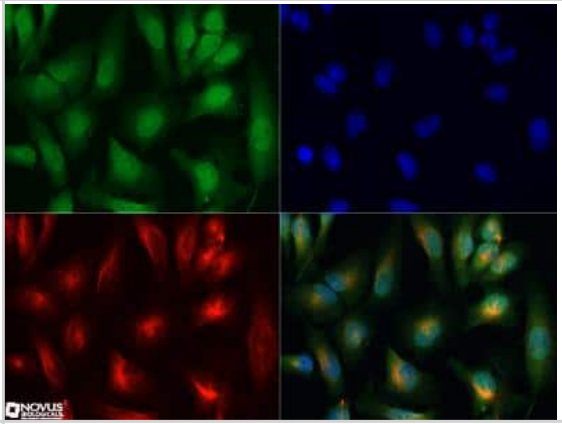
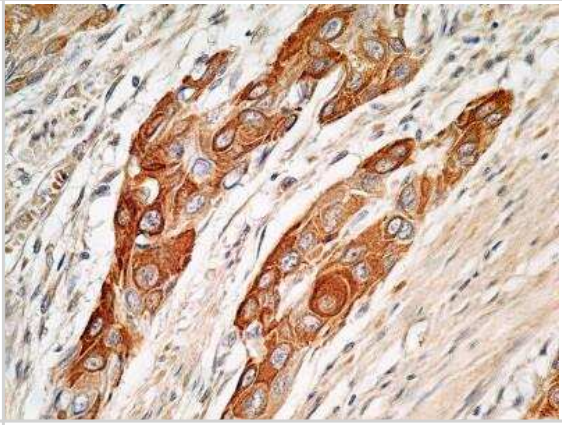
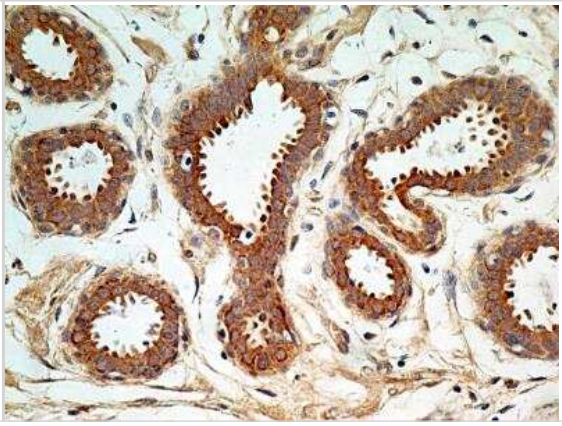
PIM1 Antibody - BSA Free

| Product Information | |
|---|---|
| **Unit Size** | 0.1 mg |
| **Concentration** | 1.0 mg/ml |
| **Storage** | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| **Clonality** | Polyclonal |
| **Preservative** | 0.05% Sodium Azide |
| **Isotype** | IgG |
| **Purity** | Protein A purified |
| **Buffer** | PBS |
| **Target Molecular Weight** | 45.4 kDa |

| Product Description | |
|---|---|
| **Description** | Novus Biologicals Rabbit PIM1 Antibody - BSA Free (NBP2-31366) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| **Host** | Rabbit |
| **Gene ID** | 5292 |
| **Gene Symbol** | PIM1 |
| **Species** | Human |
| **Reactivity Notes** | Based upon 97% similarity to immunogen sequence, this antibody is predicted to react with Rat, Bovine and Feline (Cat). For Mouse's PIM1, the immunogen sequence shows 97% similarity to isoform 2 and 74% similarity to isoform 1. |
| **Specificity/Sensitivity** | This antibody may detect isoform 1 as well as isoform 2 of PIM1 (Uniprot # P11309). |
| **Immunogen** | Partial recombinant protein made to an N-terminal portion of human PIM1 (between residues 1-200) [UniProt# P11309] |

| Product Application Details | |
|---|---|
| **Applications** | Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry |
| **Recommended Dilutions** | Western Blot 2 ug/ml, Immunohistochemistry 5 ug/ml, Immunocytochemistry/ Immunofluorescence 1:50 - 1:100, Immunohistochemistry-Paraffin 5 ug/ml |
| **Application Notes** | The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. |

## Images

| | |
|---|---|
| Western Blot: PIM1 Antibody [NBP2-31366] - Western blot analysis of HeLa (A) and A431 (B) cell lysate using PIM1 antibody at a concentration of 2 ug/ml. |   |
| Immunocytochemistry/Immunofluorescence: PIM1 Antibody [NBP2-31366] - PIM1 antibody was tested in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red). A concentration of 0.01 ug/ml was used. Image objective 40x. |  |
| Immunohistochemistry-Paraffin: PIM1 Antibody [NBP2-31366] - IHC-P analysis of PIM1 protein in a section of human esophageal squamous cell carcinoma (SCC) using PIM1 antibody at a concentration of 5 ug/ml. The representative image shows a strong cytoplasmic/nuclear staining of the SCC cells with moderate positivity in the tumor stroma. |  |
| Immunohistochemistry-Paraffin: PIM1 Antibody [NBP2-31366] - IHC-P analysis of PIM1 protein in a section of human breast normal tissue using PIM1 antibody at a concentration of 5 ug/ml. The breast ductal or acinar epithelial cells showed strong cytoplasmic as well as nuclear expression, whereas the myoepithelial cells and the intra-lobular connective tissue depicted weak PIM1 positivity. |  |

## Procedures

**Western Blot protocol for PIM1 Antibody (NBP2-31366)**
PIM1 Antibody:
Western Blot Protocol
1. Perform SDS-PAGE on protein samples to be analyzed, loading 10-40 ug of total protein per lane.
2. Electro-blot the proteins to a suitable membrane (PVDF or Nitrocellulose) according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain the membrane with Ponceau S (or a similar product) to assess transfer success. Mark molecular weight standards where appropriate.
4. Thoroughly rinse the membrane of stain with TBST.
5. Incubate the membrane in blocking buffer (5% non-fat milk in TBST or 5% BSA in TBST) as appropriate, for 60 minutes.
6. Dilute the primary antibody as appropriate in blocking buffer and incubate for 60 minute at room temperature to overnight at 4 degrees C with gently shaking.
7. Wash the membrane in TBST three times for 10 minutes each.
8. Incubate the membrane in the appropriate secondary antibody prepared in blocking buffer (as per manufacturer's instructions) and incubate for 60 minutes at room temperature.
9. Wash the membrane in TBST three times for 10 minutes each (this step can be repeated as required to reduce background).
10. Incubate the membrane in the appropriate detection reagent in accordance with the manufacturer's instructions and image the blot.
Note: Tween-20 can be added to the blocking, wash and antibody dilution buffers to a final concentration of 0.05-0.1%.

**Immunocytochemistry/Immunofluorescence protocol for PIM1 Antibody (NBP2-31366)**
PIM1 Antibody:
Immunocytochemistry Protocol

Culture cells to appropriate density on suitable glass coverslips in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 5-10 minutes.
2. Remove the formalin and add 0.5% Triton-X 100 in TBS to permeabilize the cells. Incubate for 5-10 minutes.
3. Remove the permeabilization buffer and add wash buffer (i.e. PBS or PBS with 0.1% Tween-20). Be sure to not let the specimen dry out. Gently wash three times for 10 minutes.
4. Alternatively, cells can be fixed with -20C methanol for 10 min at room temperature. Remove the methanol and rehydrate in PBS for 10 min before proceeding.
5. To block nonspecific antibody binding incubate in 10% normal goat serum for 1 hour at room temperature.
6. Add primary antibody at appropriate dilution and incubate at room temperature for 1 hour or at 4 degrees C overnight.
7. Remove primary antibody and replace with wash buffer. Gently wash three times for 10 minutes.
8. Add secondary antibody at the appropriate dilution. Incubate for 1 hour at room temperature.
9. Remove antibody and replace with wash buffer. Gently wash three times for 10 minutes.
10. Nuclei can be staining with 4',6' diamino phenylindole (DAPI) at 0.1 ug/ml, or coverslips can be directly mounted in media containing DAPI.
11. Cells can now be viewed with a fluorescence microscope.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow proper laboratory procedures for the disposal of formalin.

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## Products Related to NBP2-31366

| | |
|---|---|
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |
| 210-TA-005 | TNF-alpha [Unconjugated] |

**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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