Product Datasheet

Osteoprotegerin/TNFRSF11B Antibody (98A1071)
NB100-56505

Unit Size: 0.1 mg

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

Publications: 28

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-56505

Updated 2/20/2019 v.20.1

Earn rewards for product reviews and publications.
Submit a publication at www.novusbio.com/publications
Submit a review at www.novusbio.com/reviews/destination/NB100-56505
### Product Information

<table>
<thead>
<tr>
<th><strong>Unit Size</strong></th>
<th>0.1 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td>1.0 mg/ml</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Monoclonal</td>
</tr>
<tr>
<td><strong>Clone</strong></td>
<td>98A1071</td>
</tr>
<tr>
<td><strong>Preservative</strong></td>
<td>0.05% Sodium Azide</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG1 Kappa</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Protein G purified</td>
</tr>
<tr>
<td><strong>Buffer</strong></td>
<td>PBS</td>
</tr>
</tbody>
</table>

### Product Description

- **Host**: Mouse
- **Gene ID**: 4982
- **Gene Symbol**: TNFRSF11B
- **Species**: Human, Mouse, Rat

**Reactivity Notes**: Rat reactivity reported in scientific literature (PMID: 11028444). Mouse reactivity reported in scientific literature (PMID: 29946319)

**Specificity/Sensitivity**: The Osteoprotegerin antibody, clone 98A1071, detects all forms of Osteoprotegerin including monomeric, dimeric and Osteoprotegerin bound to RANKL (Vandooren, 2008) as well as Osteoprotegerin bound to TRAIL (Sandra, 2006).

**Immunogen**: A peptide corresponding to the amino acids 20-37 TQETFPPKYLHYDEETSH of human Osteoprotegerin was used as immunogen for this antibody.

### Product Application Details

- **Applications**: Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, CyTOF-ready


**Application Notes**: This antibody is useful in Flow Cytometry: 0.2-1 µg/106 cells

Immunocytochemistry/Immunofluorescence: see Sandra 2006

Immunohistochemistry (frozen): see Boumans 2012 for details.

Immunoprecipitation: see Sandra 2006. This antibody is CyTOF ready.
Immunohistochemistry-Paraffin: Osteoprotegerin/TNFRSF11B Antibody (98A1071) [NB100-56505] - Human liver using 1:200 dilution of anti-Osteoprotegerin/TNFRSF11B antibody (clone 98A1071). The staining was developed with HRP labeled secondary antibody and DAB reagent, and nuclei of cells were counter-stained with hematoxylin. This Osteoprotegerin antibody generated a diffused but weak cytoplasmic staining with a very specific and strong punctate signal at the periphery of the cells.

Western Blot: Osteoprotegerin/TNFRSF11B Antibody (98A1071) [NB100-56505] - Total protein from human MG63 and Daudi cell lines was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 1.0 ug/ml anti-Osteoprotegerin in blocking buffer and detected with an anti-mouse HRP secondary antibody using chemiluminescence.

Immunocytochemistry/Immunofluorescence: Osteoprotegerin/TNFRSF11B Antibody (98A1071) [NB100-56505] - MG-63 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton X-100. The cells were incubated with anti-Osteoprotegerin (98A1071) at 5 ug/ml overnight at 4C and detected with an anti-mouse DyLight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.

Flow Cytometry: Osteoprotegerin/TNFRSF11B Antibody (98A1071) [NB100-56505] - Intracellular staining of 10^6 HeLa cells using 0.2 ug of OPG antibody, 0.5 ul of PE secondary.
| Immunohistochemistry-Paraffin: Osteoprotegerin/TNFRSF11B Antibody (98A1071) [NB100-56505] | Human breast tissue stained with OPG antibody (5 ug/ml), peroxidase-conjugate and DAB chromogen. |
El Kholy K, Freire M, Chen T, Van Dyke TE. Resolvin E1 Promotes Bone Preservation Under Inflammatory Conditions. Front Immunol Jun 12 2018 12:00AM [PMID: 29946319] (Mouse)


Petersen Ingvild, Bakkelund Wenche, Smedsrod Bard, Sveinbjornsson Baldur. Osteoprotegerin is expressed in colon carcinoma cells. Anticancer Res. 2005 Nov-Dec [PMID: 16309167]


Details:
Colonic mucosa biopsies, Fig 7C


More publications at [http://www.novusbio.com/NB100-56505](http://www.novusbio.com/NB100-56505)
**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.

*For more information on our 100% guarantee, please visit* [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

*Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NB100-56505](http://www.novusbio.com/reviews/submit/NB100-56505)*

*Earn gift cards/discounts by submitting a publication using this product: [www.novusbio.com/publications](http://www.novusbio.com/publications)*