## Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-Semaphorin 4D/CD100 antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit polyclonal to Semaphorin 4D/CD100</td>
</tr>
<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: WB, IHC-P</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Mouse</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Recombinant fragment (His-tag) corresponding to Mouse Semaphorin 4D/CD100 aa 502-636. Expressed in E.coli. Sequence: FCEKHGSCEDCVLARDPYCAWSPAIAKACVTLHQEEA SSRGWQDMSGDTS SCLDKSKESFNQHFFKHGTAELKCFQKSNLARVW KFQNGELKAASPKY GFVGRKHLLIFNLSDGDSGVYQCCEERVVNKTVS Database link: O09126</td>
</tr>
</tbody>
</table>

## Positive control

- WB: Recombinant mouse Semaphorin 4D/CD100 protein; mouse serum. IHC-P: Mouse testis tissue.

## General notes

This product was previously labelled as Semaphorin 4D

## Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
</table>
| Storage buffer | pH: 7.40  
Preservative: 0.02% Sodium azide  
Constituents: PBS, 50% Glycerol |
| Purity      | Immunogen affinity purified |
| Purification notes | Antigen-specific affinity chromatography followed by Protein A affinity chromatography. |
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab231961 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 96 kDa.</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 5 - 20 µg/ml.</td>
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</table>

Target

Function: May play a functional role in the immune system, as well as in the nervous system. Induces B-cells to aggregate and improves their viability in vitro.

Tissue specificity: Strongly expressed in skeletal muscle, peripheral blood lymphocytes, spleen, and thymus and also expressed at lower levels in testes, brain, kidney, small intestine, prostate, heart, placenta, lung and pancreas, but not in colon and liver.

Sequence similarities: Belongs to the semaphorin family.
Contains 1 Ig-like C2-type (immunoglobulin-like) domain.
Contains 1 PSI domain.
Contains 1 Sema domain.

Cellular localization: Membrane.

Images

Western blot - Anti-Semaphorin 4D/CD100 antibody (ab231961) at 1 µg/ml + Recombinant mouse Semaphorin 4D/CD100 protein

Predicted band size: 96 kDa
Anti-Semaphorin 4D/CD100 antibody (ab231961) at 1 µg/ml + Mouse serum

**Predicted band size:** 96 kDa

**Western blot - Anti-Semaphorin 4D/CD100 antibody (ab231961)**

Formalin-fixed, paraffin-embedded mouse testis tissue stained for Semaphorin 4D/CD100 using ab231961 at 20 µg/ml in immunohistochemical analysis. DAB staining.

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Semaphorin 4D/CD100 antibody (ab231961)**

**Please note:** All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

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