

Datasheet for ABIN7602023  
**anti-SEMA3B antibody (AA 55-624)**



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## Overview

Quantity:	100 µg
Target:	SEMA3B
Binding Specificity:	AA 55-624
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SEMA3B antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FACS)

## Product Details

Purpose:	Anti-Semaphorin 3B/SEMA3B Antibody Picoband® (monoclonal, 9C4F7)
Immunogen:	E.coli-derived human Semaphorin 3B/SEMA3B recombinant protein (Position: Y55-R624).
Clone:	9C4F7
Isotype:	IgG2b
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	<p>Anti-Semaphorin 3B/SEMA3B Antibody Picoband® (monoclonal, 9C4F7) (ABIN7602023).</p> <p>Tested in Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.</p>

## Product Details

Purification: Immunogen affinity purified.

## Target Details

Target: SEMA3B

Alternative Name: SEMA3B ([SEMA3B Products](#))

Background: Synonyms: T-complex protein 1 subunit gamma, TCP-1-gamma, CCT-gamma, hTRIC5, CCT3, CCTG, TRIC5  
Tissue Specificity: Ubiquitously expressed with highest levels in spleen, thymus and immature brain.  
Background: Semaphorin-3B is a protein that in humans is encoded by the SEMA3B gene. It is mapped to 3p21.31. The semaphorin/collapsin family of molecules plays a critical role in the guidance of growth cones during neuronal development. The secreted protein encoded by this gene family member is important in axonal guidance and has been shown to act as a tumor suppressor by inducing apoptosis.

Molecular Weight: 83 kDa

Gene ID: 7869

UniProt: [Q13214](#)

## Application Details

Application Notes: Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat  
Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human  
Flow Cytometry (Fixed), 1-3 µg/1×10<sup>6</sup> cells, Human  
1. Ochi K, Mori T, Toyama Y, Nakamura Y, Arakawa H (2002). "Identification of semaphorin3B as a target of p53". Neoplasia. 4 (1): 82-7. 2. Tse C, Xiang RH, Bracht T, Naylor SL (January 2002). "Human Semaphorin 3B (SEMA3B) located at chromosome 3p21.3 suppresses tumor formation in an adenocarcinoma cell line". Cancer Research. 62 (2): 542-6.

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

## Handling

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Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.