



# Rabbit Anti-Mouse Semaphorin 4D monoclonal antibody, clone S232 (CABT-ZB682)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	It reacts with Mouse Semaphorin 4D
<b>Target</b>	SEMA4D
<b>Immunogen</b>	Recombinant Mouse Semaphorin 4D/SEMA4D/CD100 Protein
<b>Isotype</b>	IgG2b
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	S232
<b>Purification</b>	Protein A purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA(cap) We recommend the following for sandwich ELISA (Capture - Detection): CABT-ZB682 - CABT-ZB1014 This antibody will detect Semaphorin 4D in antibody pair set. [ABPR-ZB261]
<b>Preparation</b>	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse Semaphorin 4D / SEMA4D / CD100.
<b>Format</b>	Purified, Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	50 µL, 100 µL, 1 mL

Buffer	PBS
Preservative	None
Storage	<p>This antibody can be stored at 2°C-8°C for one month without detectable loss of activity.</p> <p>Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.</p>
Ship	Wet ice

## BACKGROUND

**Introduction** Semaphorin 4D (SEMA4D or CD100) is a member of the semaphorin family of proteins and an important mediator of the movement and differentiation of multiple cell types, including those of the immune, vascular, and nervous systems. VEGF and SEMA4D had a positive correlation with the malignant degree of ovarian cancer, and SEMA4D can serve as an independent prognostic factor. SEMA4D was the first semaphorin described to have immune functions and serves important roles in T cell priming, antibody production, and cell-to-cell adhesion. Proteolytic cleavage of SEMA4D from the cell surface gives rise to a soluble fragment of SEMA4D (sSEMA4D). Similar to the transmembranal form, sSEMA4D is thought to have immunoregulatory properties.

**Keywords** SEMA4D; sema domain; immunoglobulin domain (Ig); transmembrane domain (TM) and short cytoplasmic domain

## GENE INFORMATION

**Synonyms** SEMA4D; sema domain; immunoglobulin domain (Ig); transmembrane domain (TM) and short cytoplasmic domain; (semaphorin) 4D; CD100; SEMAJ; coll-4; C9orf164; M-sema-G; semaphorin-4D; A8; GR3; BB18; sema domain; immunoglobulin domain (Ig); transmembrane domain (TM) and short cytoplasmic domain; 4D

**Entrez Gene ID** [20354](#)

**UniProt ID** [O09126](#)