



20200828DS

Anti-human Semaphorin 3C (#29U11)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	101-M721
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (rat myeloma fused with spleen cells from a rat) immunized with human recombinant protein of Semaphorin 3C.

Target Background

Synonyms (Target):	Sema3c; SemE; Sema; 1110036B02Rik
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Semaphorins are a large group of structurally related secreted, GPI-anchored and transmembrane cell signaling molecules. There are 8 major classifications (1-7) of Semaphorins characterized by the existence of a conserved 500 amino acid SEMA domain at the amino terminus. Classes 3,4,6, and 7 are found in vertebrates only, whilst class 5 is found in both vertebrates and invertebrates. Each class is then divided into additional subgroups based on shared structural characteristics. Semaphorins primarily function as axon growth cone guidance factors during neuronal development. Semaphorin 3A acts as a chemo-repellent to axons, and an inhibitor of the growth of axons by signaling through receptors, Neuropilin-1 and Plexin-A. Recombinant human Semaphorin 3A is a 751 amino acid protein containing the SEMA domain, an immunoglobulin c2-like domain and a basic domain (Arg/Lys rich) near the C-terminus.

Database References Target

Protein RefSeq:	NP_006370.1
Uniprot ID:	Q99985
mRNA RefSeq:	NM_006379.3

Product Specifications

Host	Rat
Reactivity against	Human
Clonality	Monoclonal Antibody
Clone	(#29U11)
Isotype	IgG2
Purification	Protein G chromatography
Antigen	recombinant human Semaphorin 3C
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 500 µl sterile PBS and the final concentration is 200 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at <-20°C for at least for six months without detectable loss of activity.

Remarks: This antibody recognizes human semaphorin 3C by direct Elisa and Western Blot.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

WB, IHC

Recommended usage:

Western Blot: 1:500 - 1:1000

IHC: 1:100 - 1:200

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!