



# Anti-SEMA3A (aa 359-372) polyclonal antibody (DPABH-15246)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	One family of inhibitory axon guidance molecules is the semaphorins. The semaphorins include secreted, transmembrane, and GPI anchored extracellular molecules that are involved in regulating axon guidance by inhibiting axons from growing toward incorrect targets. Semaphorin 3A (Sema3A) may play a particularly interesting role in limiting axon regeneration since it is expressed in meningeal fibroblasts that invade the injured spinal cord and surround the glial scar. In addition, the Sema3A co receptors, Neuropilin 1 and Plexin A1, are expressed on axons that regenerate up to the injured region, but do not cross this Sema3A containing region. Thus, Sema3A and its co receptors may have important roles in regulating axon guidance during neuronal development and after neuronal injury.
<b>Immunogen</b>	Synthetic peptide (coupled to carrier protein): RDGPNYQWVPYQGR, corresponding to amino acids 359-372 of Human Semaphorin 3A
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Mouse, Rat, Chicken, Human, Xenopus laevis, Zebrafish, Japanese ricefish, A. leptorhynchus
<b>Purification</b>	Immunogen affinity purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC-P, IHC-Fr, ICC/IF, IHC-FoFr, WB, ELISA
<b>Format</b>	Liquid
<b>Size</b>	50 µl
<b>Buffer</b>	Constituents: 50% Glycerol, PBS, 1mg/ml BSA.

<b>Preservative</b>	0.05% Sodium Azide
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">SEMA3A sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 4A [ Homo sapiens ]</a>
<b>Official Symbol</b>	SEMA3A
<b>Synonyms</b>	SEMA3A; sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A; HH16; SemD; COLL1; SEMA1; SEMAD; SEMAL; coll-1; Hsema-I; SEMAIII; Hsema-III; semaphorin-3A; collapsin 1; semaphorin D; semaphorin L; semaphorin III;
<b>Entrez Gene ID</b>	<a href="#">10371</a>
<b>Protein Refseq</b>	<a href="#">NP_006071.1</a>
<b>UniProt ID</b>	<a href="#">Q14563</a>
<b>Pathway</b>	Axon guidance; Axon guidance; Developmental Biology; Sema3A PAK dependent Axon repulsion
<b>Function</b>	chemorepellent activity; neuropilin binding; receptor activity; semaphorin receptor binding