

## Product datasheet for **DDX0462A488-100**

### SEMA6A Mouse Monoclonal Antibody [Clone ID: 104B3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	104B3
Applications:	FC, IF
Recommend Dilution:	<b><u>DDX0462P-50 / DDX0462P-100 Purified:</u></b> IHC. <b><u>DDX0462A488-50 / DDX0462A488-100 Alexa-fluor®488:</u></b> IF, Flow cytometry <b><u>DDX0462A546-50 / DDX0462A546-100 Alexa-fluor®546:</u></b> IF <b><u>DDX0462A647-50 / DDX0462A647-100 Alexa- fluor®647:</u></b> (on request) IHC, Flow cytometry.

#### Usage recommendation:

- \*This monoclonal antibody may be used between 5-20 µg/ml.
- \*Optimal dilution should be determined by each laboratory for each application.
- \*Coupled antibody: to maintain RT before using.

Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	human recombinant SEMA-6A
Specificity:	Human SEMA-6A (epitope in extracellular domain).
Formulation:	<b><u>Purified:</u></b> 100 µg in 200µl / 50 µg in 100 µl Tris-NaCl pH 8. <b><u>Coupled:</u></b> 100 µg in 200µl / 50 µg in 100 µl PBS 50% glycerol. Label: Alexa Fluor 488
Concentration:	0.5 mg/ml
Purification:	QMA Hyper D ion exchange chromatography
Conjugation:	Alexa Fluor 488
Gene Name:	semaphorin 6A
Database Link:	<a href="#">Entrez Gene 57556 Human</a>



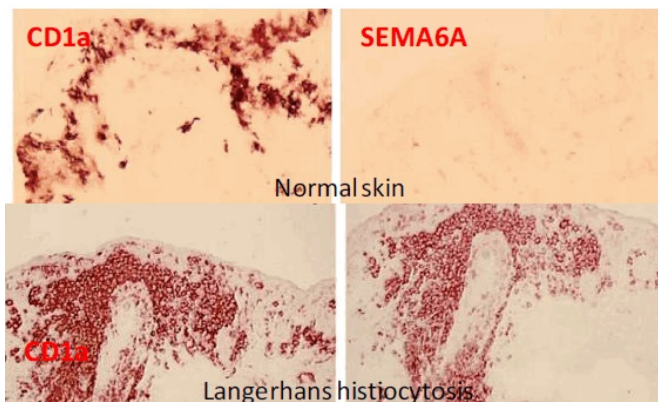
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**Background:**

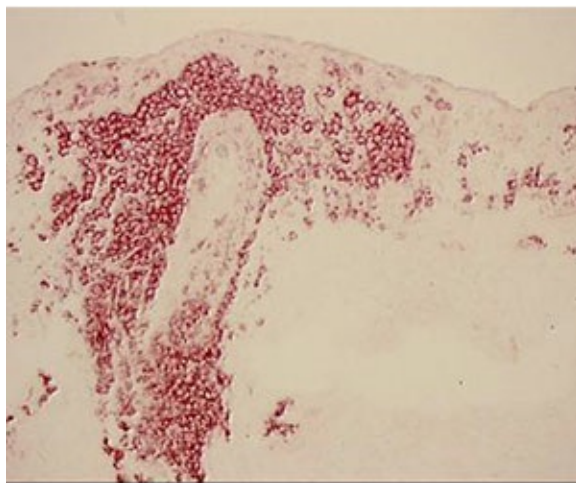
Semaphorins represent a large family composed of 19 secreted, GPI-linked or transmembrane members divided into 5 classes (3 to 7) and characterized by the presence of a 500 amino acid Sema domain in the Nterminus. Initially described for their role in axon guidance and apoptosis during neuronal development, some semaphorins like the class 4 regulate immune functions and are involved in organogenesis and angiogenesis. The transmembrane class 6 semaphorins include 4 members (SEMA-6A to 6D). SEMA-6A features an intracellular binding site for regulatory Evi protein. In the immune system, SEMA6A protein is restricted in vitro and in vivo to an activation status of Langerhans cells. (*Gautier G et al., 2006 Am J Pathol., 168: 453-65*).

**Synonyms:**

Semaphorin-6A, Semaphorin VIA, Sema VIA, Semaphorin-6A-1, SEMA6A-1, SEMAQ, KIAA1368

**Product images:**

*Gautier et al, 2006*



IHC staining of Langerhans histiocytosis frozen section with clone 104B3 (DDX0462)