

**Neurite growth protein L1, human recombinant protein**

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<b>CATALOG NUMBER:</b>	GF220	<b>QUANTITY:</b>	100 µg (1 mg/ml)
<b>LOT NUMBER:</b>			
<b>ALTERNATE NAMES:</b>	Cell adhesion molecule L1		
<b>DESCRIPTION:</b>	<p>L1, a cell adhesion molecule of the Ig superfamily (IgCAM) plays a critical role in the formation of neuronal networks. This is reflected by the variety of clinical signs associated with the X-linked recessive neurological disorder that is caused by mutations in the L1 gene. L1 regulates the formation of axon fascicles and promotes neurite outgrowth through interaction with a wide spectrum of binding partners including cell adhesion molecules and extra-cellular matrix components. L1 participates in the signaling of a secreted guidance cue of the Semaphorin family, Sema3A. Three types of experimental evidence support L1 as a key component of the Sema3A receptor complex.</p> <p>Chimeric protein of <i>Human</i> neurite growth protein L1 and <i>Human</i> IgG-Fc <math>\gamma</math> domain purified using protein A-agarose (Millipore Corp, cat. # 16-125). MW ~ 200 kDa.</p>		
<b>SOURCE:</b>	Mammalian cells, <i>HEK293 cell line</i>		
<b>PURITY:</b>	Greater than 90% by SDS-PAGE and Coomassie blue staining. Western blotting by primary antibody rat anti L1 (Millipore Corp, cat. # MAB5272) and secondary antibody goat anti rat, HRP (Millipore Corp, cat. # AP183P).		
<b>ACTIVITY:</b>	See references.		
<b>APPLICATIONS:</b>	Used at 5 µg/ml (see references1 and 2). <i>Optimal working concentration must be determined by end user.</i>		
<b>PRESENTATION:</b>	100µg of recombinant protein in 100µl of 1X PBS, 20%(v/v) glycerol. Frozen solution.		
<b>STORAGE/HANDLING:</b>	Shipped on dry ice. Best stored at -80°C for up to 6 months after date of receipt. Thawed aliquots should be used immediately, as repeated freeze/thaw cycles might result in loss of activity.		
<b>REFERENCES</b>	<ol style="list-style-type: none"><li>1. J Neurosci. 2004 Feb 25;24(8):1976-86.</li><li>2. Development. 2003 Feb;130(4):775-84.</li><li>3. Development. 2000 Mar;127(6):1231-41.</li><li>4. Neuron. 1994 May;12(5):957-75.</li><li>5. Adv Exp Med Biol. 2002;515:91-102.</li></ol>		

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

***For research use only; not for use as a diagnostic.***

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