LINGO1 Antibody

Catalog No: #43744



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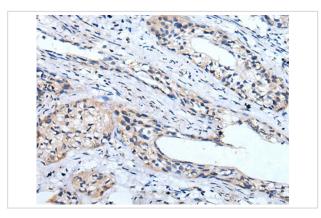
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LINGO1 Antibody
Rabbit
Polyclonal
Antigen affinity purification
IHC
Hu Ms
The antibody detects endogenous levels of total LINGO1 protein.
peptide
Synthetic peptide of human LINGO1
LINGO1
LERN1; LRRN6A; UNQ201
Swiss-Prot#: Q96FE5NCBI Gene ID: 84894
Q96FE5
84894;
0.5mg/ml
Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Store at -20°C

Application Details

Immunohistochemistry: 1: 10-50

Images



The image on the left is immunohistochemistry of paraffin-embedded Human cervical cancer tissue using LINGO1 Antibody at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: x200)

Background

Lingo-1 is a 614-amino acid protein that plays an important role in the negative regulation of myelination by oligodendrocytes in the central nervous system (CNS). Lingo-1 is a nervous system-specific transmembrane protein that interacts with NgR1 and p75 to make up a receptor complex that binds to Nogo, a protein that inhibits axonal regeneration. Reduction of Lingo-1 activity downregulates RhoA (a protein related to cytoskeleton regulation) activity, promotes oligodendrocyte differentiation, and increases axonal myelination in neuronal tissues. Conversely, overexpression of

Lingo-1 activates RhoA and inhibits oligodendrocyte differentiation and myelination. Lingo-1 up-regulation may be a characteristic of activity-induced neural plasticity responses. Lingo-1 may be a critical deterrent of myelin and nerve fiber repair in multiple sclerosis, an inflammatory disease that causes gradual destruction of myelin in the CNS.

Note: This product is for in vitro research use only