Rabbit Anti—Nogo-A

CATALOG NO     BA1309
SIZE             0.1ml ;0.2ml (200μg/ml)
LOT NO

BACKGROUND
The lack of regrowth of injured neurons in the adult central nervous system (CNS) of higher vertebrates was accepted as a fact for many decades. In the last few years a very different view emerged; regeneration of lesioned fibre tracts in vivo could be induced experimentally, and molecules that are responsible for inhibition and repulsion of growing neurites have been defined. Mechanisms that link cellular phenomena like growth cone turning or growth cone collapse to intracellular changes in second messenger systems and cytoskeletal dynamics became unveiled. This article reviews recent developments in this field, focusing especially on one of the best characterised neurite out-growth inhibitory molecules found in CNS myelin that was recently cloned: Nogo-A. Nogo-A is a high molecular weight transmembrane protein and an antigen of the monoclonal antibody mAb IN-1 that was shown to promote long-distance regeneration and functional recovery in vivo when applied to spinal cord-injured adult rats. Nogo-A is expressed by oligodendrocytes in white matter of the CNS. With the molecular characterisation of this factor new possibilities open up to achieve structural and functional repair of the injured CNS.

SPECIFICITY
Anti- Nogo-A is a rabbit polyclonal antibody raised against a synthetic peptide corresponding to the C-terminal of human Nogo-A, different from the related rat sequence by single amino acid. It reacts specifically with Nogo-A of human , rabbit, mouse and rat origin in immunohistochemistry and western blotting procedures.

FORMAT
Epitope Specificity Antibody, Immunoaffinity purified rabbit IgG.

APPLICATION
Western blotting: 1:100-400
Immunocytochemistry in fixed cells: 1:100-500
Immunohistochemistry in frozen section: 1:100-500
Immunohistochemistry in paraffin section: 1:50-200
(Boiling the paraffin sections in 10mM citrate buffer, pH 6.0, for 20 mins may improve the staining of formalin/paraffin sections.)
Optimal working dilutions must be determined by end users.

CONTENTS
0.01 M PBS, 30%glycerol,2mg/mlBSA,0.02%NaN3.

STORAGE
For continuous use store at 4°C for six months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
REFERENCE


博士德提供一系列配合此抗体使用的试剂盒，用于冰冻切片的免疫组化时，配套使用 SA1028；用于石蜡切片的免疫组化时，配套使用 SA1022 - SABC 试剂盒或 SV0002 二步法试剂盒；用于 Western blotting 时，用化学发光试剂盒 EK1002。此外博士德还提供其它标记物（包括 FITC，Cy3 和碱性磷酸酶）的免疫组化试剂盒和 Western blotting 全系列产品。