

Anti-NSE antibody - Neuronal Marker ab53025

★★★★★ [11 Abreviews](#) [58 References](#) [4 图像](#)

概述

产品名称	Anti-NSE抗体- Neuronal Marker
描述	兔多克隆抗体to NSE - Neuronal Marker
宿主	Rabbit
经测试应用	适用于: ELISA, ICC/IF, WB, IHC-P, IHC-FoFr, Flow Cyt
种属反应性	与反应: Mouse, Rat, Human, Pig
免疫原	Synthetic peptide derived from human NSE
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	<p>pH: 7</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS</p>
纯度	Without Mg+2 and Ca+2
纯化说明	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee

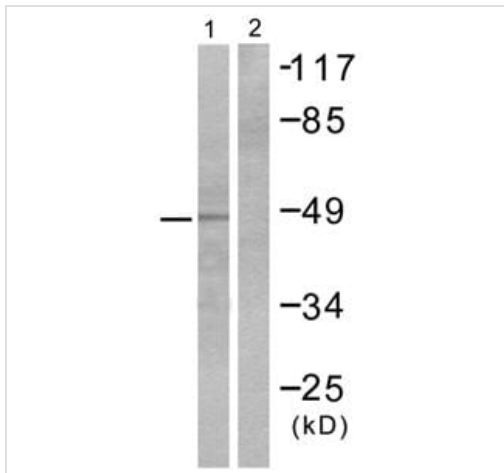
Abpromise™承诺保证使用ab53025于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ELISA		Use at an assay dependent concentration.
ICC/IF	★★★★★ (1)	Use a concentration of 1 - 5 µg/ml.
WB	★★★★★ (3)	1/500 - 1/1000. Predicted molecular weight: 47 kDa.
IHC-P	★★★★★ (5)	Use at an assay dependent concentration.
IHC-FoFr	★★★★★ (1)	Use at an assay dependent concentration.
Flow Cyt	★★★★★ (1)	Use at an assay dependent concentration. <u>ab171870</u> - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

靶标	
功能	Has neurotrophic and neuroprotective properties on a broad spectrum of central nervous system (CNS) neurons. Binds, in a calcium-dependent manner, to cultured neocortical neurons and promotes cell survival.
组织特异性	The alpha/alpha homodimer is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons.
通路	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 4/5.
序列相似性	Belongs to the enolase family.
发展阶段	During ontogenesis, there is a transition from the alpha/alpha homodimer to the alpha/beta heterodimer in striated muscle cells, and to the alpha/gamma heterodimer in nerve cells.
细胞定位	Cytoplasm. Cell membrane. Can translocate to the plasma membrane in either the homodimeric (alpha/alpha) or heterodimeric (alpha/gamma) form.

图片



Western blot - Anti-NSE antibody - Neuronal Marker (ab53025)

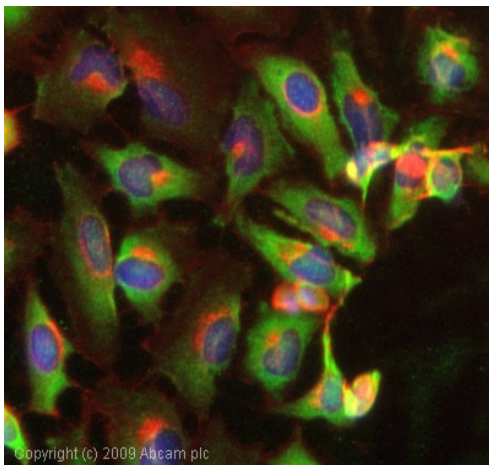
All lanes : Anti-NSE antibody - Neuronal Marker (ab53025) at 1/500 dilution

Lane 1 : Extracts from HepG2 cells with no immunizing peptide

Lane 2 : Extracts from HepG2 cells with immunizing peptide

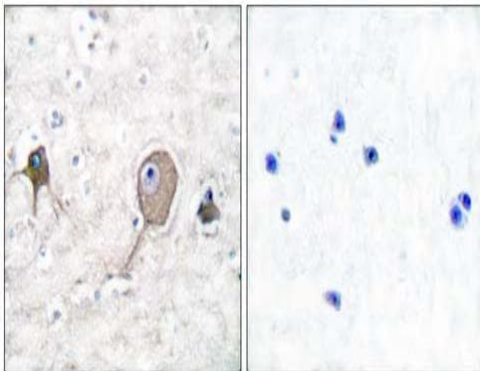
Predicted band size: 47 kDa

Observed band size: 47 kDa



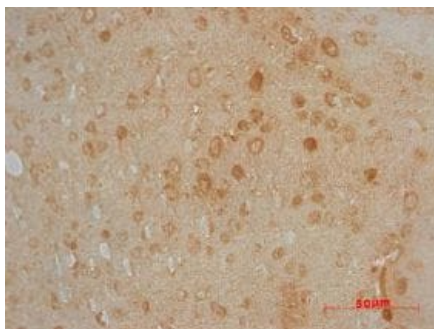
Immunocytochemistry/ Immunofluorescence - Anti-NSE antibody - Neuronal Marker (ab53025)

ICC/IF image of ab53025 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab53025, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunohistochemical analysis of paraffin-embedded human brain tissue using ab53025 at 1/50-1/100 dilution. Left: without immunizing peptide; Right: with immunizing peptide

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NSE antibody - Neuronal Marker (ab53025)



ab53025 staining NSE in mouse brain tissue section by Immunohistochemistry (PFA-perfusion fixed frozen tissue sections). Tissues were collected from mice in each group at 10 weeks. Mice were euthanized, the brains were exposed and removed from the body. Then the brain was cut, on ice and fixed in 4% polyformaldehyde or glutaraldehyde solution for histological examination. The primary antibody was used at 1/75 dilution in PBS and incubated with sample for 2 hours at 37°C. A HRP-conjugated secondary antibody was used at for 1hr at 37°C in a humidity box.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NSE antibody - Neuronal Marker (ab53025)

Image from Yu Yang, et. al. Mol. Cell. Proteomics, Mar 2009 (Fig 6).

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