

Product datasheet

Anti-NSE antibody [EPR3377] ab79757

Recombinant RabMAB

★☆☆☆☆ 3 Abreviews 8 References 4 Images

Overview

Product name	Anti-NSE antibody [EPR3377]
Description	Rabbit monoclonal [EPR3377] to NSE
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, Flow Cyt, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human NSE aa 1-100. The exact sequence is proprietary.
Positive control	WB: Human fetal brain tissue lysate and SH-SY-5Y, HeLa and Y79 cell lysates. IHC-P: Human brain tissue. ICC/IF: formaldehyde fixed SKNSH cells.
General notes	Our RabMAB [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab[®] patents This product is a recombinant rabbit monoclonal antibody.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR3377
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab79757** in the following tested applications.

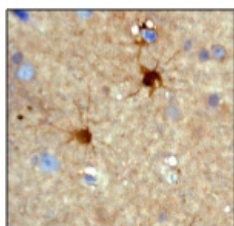
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★☆☆☆☆	1/100 - 1/250.
WB	★☆☆☆☆	1/5000 - 1/20000. Detects a band of approximately 47 kDa (predicted molecular weight: 47 kDa).
Flow Cyt		1/20 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		Use at an assay dependent concentration.

Target

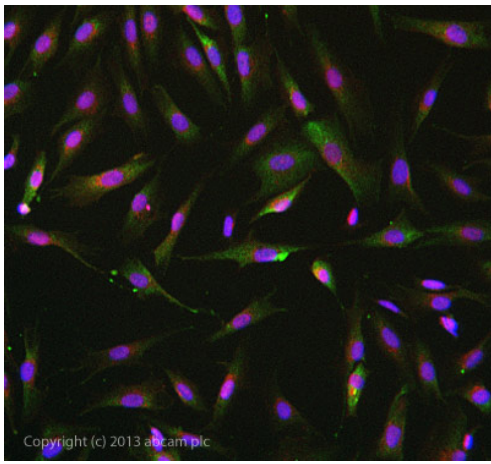
Function	Has neurotrophic and neuroprotective properties on a broad spectrum of central nervous system (CNS) neurons. Binds, in a calcium-dependent manner, to cultured neocortical neurons and promotes cell survival.
Tissue specificity	The alpha/alpha homodimer is expressed in embryo and in most adult 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.
Pathway	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 4/5.
Sequence similarities	Belongs to the enolase family.
Developmental stage	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.
Cellular localization	Cytoplasm. Cell membrane. Can translocate to the plasma membrane in either the homodimeric (alpha/alpha) or heterodimeric (alpha/gamma) form.

Images



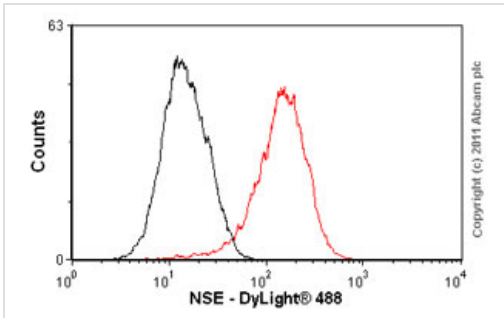
Immunohistochemical analysis of paraffin-embedded human brain tissue using 1/250-1/500 ab79757.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NSE antibody [EPR3377] (ab79757)



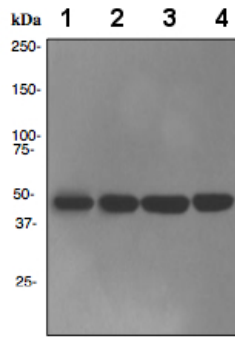
Immunocytochemistry/ Immunofluorescence - Anti-NSE antibody [EPR3377] (ab79757)

ICC/IF image of ab79757 stained SKNSH cells. The cells were 4% formaldehyde fixed (10 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 ab79757 at 1/25 dilution overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (ab96899) 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.



Flow Cytometry - Anti-NSE antibody [EPR3377] (ab79757)

Overlay histogram showing HeLa cells stained with ab79757 (red line). The cells were fixed with methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab79757, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (ab96899) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit monoclonal IgG (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde/permeabilized with 0.1% PBS-Tween 20 used under the same conditions.



Western blot - Anti-NSE antibody [EPR3377]
(ab79757)

All lanes : Anti-NSE antibody [EPR3377]
(ab79757) at 1/20000 dilution

Lane 1 : fetal brain lysate

Lane 2 : SH-SY-5Y lysate

Lane 3 : HeLa lysate

Lane 4 : Y79 lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 47 kDa

Observed band size: 47 kDa

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