

Product datasheet

# Anti-NSE antibody [5E2] ab10171

1 Image

Overview

<b>Product name</b>	Anti-NSE antibody [5E2]
<b>Description</b>	Mouse monoclonal [5E2] to NSE
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, WB, IHC-P, Flow Cyt, Sandwich ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Full length native protein (purified) (Human).
<b>General notes</b>	Concentration varies from lot to lot and can be provided on request.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.1% Sodium Azide Constituents: PBS, pH 7.4
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Purity tested by electrophoresis.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	5E2
<b>Myeloma</b>	Sp2/0
<b>Isotype</b>	IgG2a

Applications

Our [Abpromise guarantee](#) covers the use of **ab10171** 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
ELISA		Use at an assay dependent concentration. Can be paired for ELISA with <a href="#">Mouse monoclonal [1C1] to NSE (ab8328)</a> .
WB		Use at an assay dependent concentration. Detects a band of approximately 45 kDa.

Application	Abreviews	Notes
IHC-P		1/100 - 1/300. Antigen retrieval is not essential but may optimise staining.
Flow Cyt		Use 0.1µg for 10 <sup>6</sup> cells. <a href="#">ab170191</a> -Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
Sandwich ELISA		Use at an assay dependent concentration. Can be paired for Sandwich ELISA with <a href="#">Mouse monoclonal [1C1] to NSE (HRP) (ab24472)</a> and <a href="#">Mouse monoclonal [1C1] to NSE (ab8328)</a> . Can be used as capture antibody in conjunction with <a href="#">ab8328</a> . Can be paired for sandwich ELISA with <a href="#">ab24472</a>

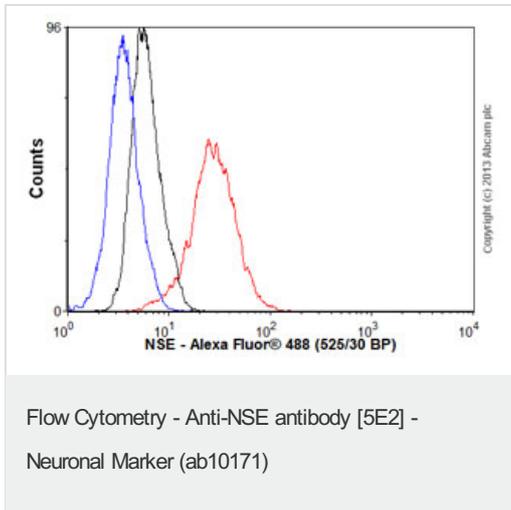
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## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	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.
<b>Pathway</b>	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 4/5.
<b>Sequence similarities</b>	Belongs to the enolase family.
<b>Developmental stage</b>	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.
<b>Cellular localization</b>	Cytoplasm. Cell membrane. Can translocate to the plasma membrane in either the homodimeric (alpha/alpha) or heterodimeric (alpha/gamma) form.

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## Anti-NSE antibody [5E2] images



Overlay histogram showing SH-SH5Y cells stained with ab10171 (red line). The cells were fixed with 4% paraformaldehyde (10 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 (ab10171, 0.1 µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (ab150113) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] (ab91361, 0.1 µg/1x10<sup>6</sup> cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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