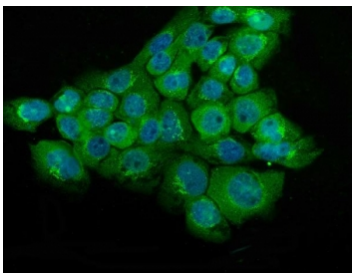
NSE Antibody / Neuron Specific Enolase (RQ4566)

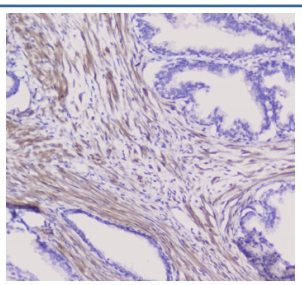
Catalog No.	Formulation	Size
RQ4566	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

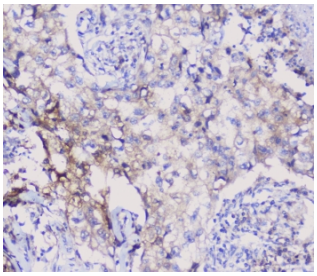
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P09104
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Immunofluorescence (FFPE) : 2-4ug/ml Flow Cytometry : 1-3ug/million cells



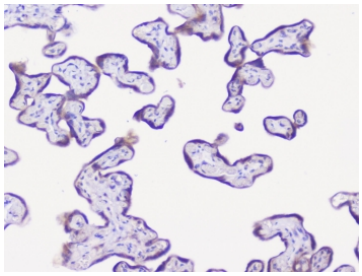
Immunofluorescent staining of FFPE human A431 cells with NSE antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



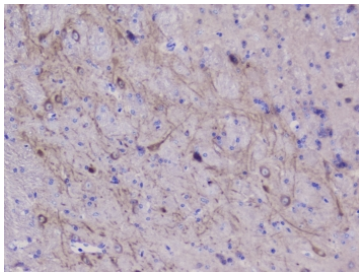
IHC staining of FFPE human pancreatic cancer with NSE antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



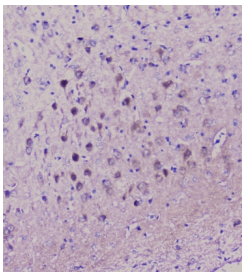
IHC staining of FFPE human lung cancer with NSE antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



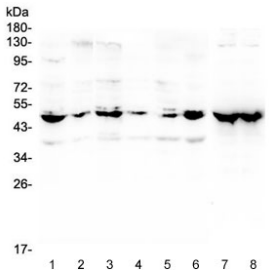
IHC staining of FFPE human placenta with NSE antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



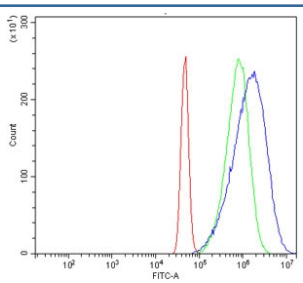
IHC staining of FFPE mouse brain with NSE antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE rat brain with NSE antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



Western blot testing of human 1) 22RV1, 2) U-2 OS, 3) A431, 4) HepG2, 5) A549, 6) SHG-44, 7) rat brain and 8) mouse brain lysate with NSE antibody at 0.5ug/ml. Predicted molecular weight ~47 kDa.



Flow cytometry testing of human A431 cells with NSE antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= NSE antibody.

Description

NSE (neuron specific enolase), also known as Enolase 2 (ENO2), is found in elevated concentrations in plasma in certain neoplasias. The enolases catalyze the interconversion of 2-phosphoglycerate to phosphoenolpyruvate in the glycolytic pathway. ENO2 gene contains 12 exons distributed over 9,213 nucleotides. Human neurone-specific enolase is mapped to chromosome 12p13.

Application Notes

Optimal dilution of the NSE antibody should be determined by the researcher.

Immunogen

Amino acids LKAVDHINSTIAPALISSGLSVVEQEKLDNLMLELDGTENK were used as the immunogen for the NSE antibody.

Storage

After reconstitution, the NSE antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.