**MAA537Hu21**

**Monoclonal Antibody to Enolase, Neuron Specific (NSE)**

**Organism Species: Homo sapiens (Human)**

***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

11th Edition (Revised in May, 2016)

## [ PROPERTIES ]

**Source:** Monoclonal antibody preparation
**Host:** Mouse
**Antibody isotype:** IgG1 Kappa
**Purification:** Protein A/G Affinity Chromatography.
**Clone number:** A4
**Traits:** Liquid
**Concentration:** 500μg/mL
**UOM:** 200μg
**Applications:** WB; ICC; IHC-P; IHC-F; ELISA; IP; IF; FCM.

## [ IMMUNOGEN ]

**Immunogen:** RPA537Hu01-Recombinant Enolase, Neuron Specific (NSE)

## [ APPLICATIONS ]

Western blotting: 0.5-5ug/ml
Immunocytochemistry in formalin fixed cells: 5-30ug/ml
Immunohistochemistry in formalin fixed frozen section: 5-30ug/ml
Immunohistochemistry in paraffin section: 5-30ug/ml
Enzyme-linked Immunosorbent Assay: 0.05-2ug/ml
Optimal working dilutions must be determined by end user.

## [ FORMULATION ]

**Form & Buffer:** Supplied as solution form in PBS, pH7.4, containing 0.02% $NaN_3$, 50% glycerol.

## [ QUALITY CONTROL ]

**Content:** The quality control contains recombinant NSE disposed in loading buffer.

**Usage:** 10uL per well when 3,3'-Diaminobenzidine (DAB) as the substrate.
5uL per well when used in enhanced chemilumescent (ECL).

**Note:** The quality control is specifically manufactured as the positive control. Not used for other purposes.

**Loading Buffer:** 100mM Tris(pH6.8), 1% SDS, 150mM NaCl, 50% glycerol, 0.02% BPB, 50mM DTT and 0.02% $NaN_3$.

## [ STORAGE AND STABILITY ]

**Storage:** Avoid repeated freeze/thaw cycles.
Store at 4°C for frequent use.
Aliquot and store at -20°C for 12 months.

**Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed.The loss rate is less than 5% within the expiration date under appropriate storage condition.

## [ IDENTIFICATION ]

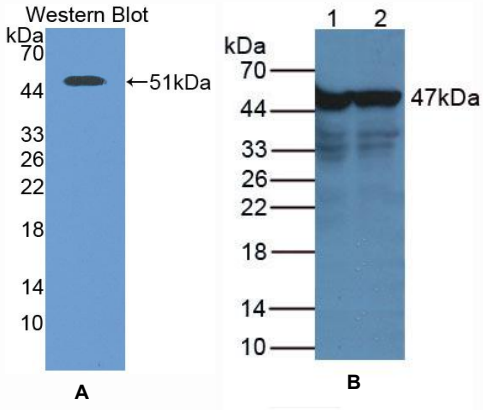


**Figure 1. Western Blot**

**A. Sample: Recombinant NSE, Human**

**B. Lane1: Human Hepg2 Cells**

**Lane2: Human Hela Cells**

**Primary Ab: 2μg/mL Rabbit Anti-Human NSE Ab**

**Second Ab: 1:5000 Dilution of HRP-Linked Rabbit Anti-Mouse IgG Ab (Catalog: SAA544Mu09)**

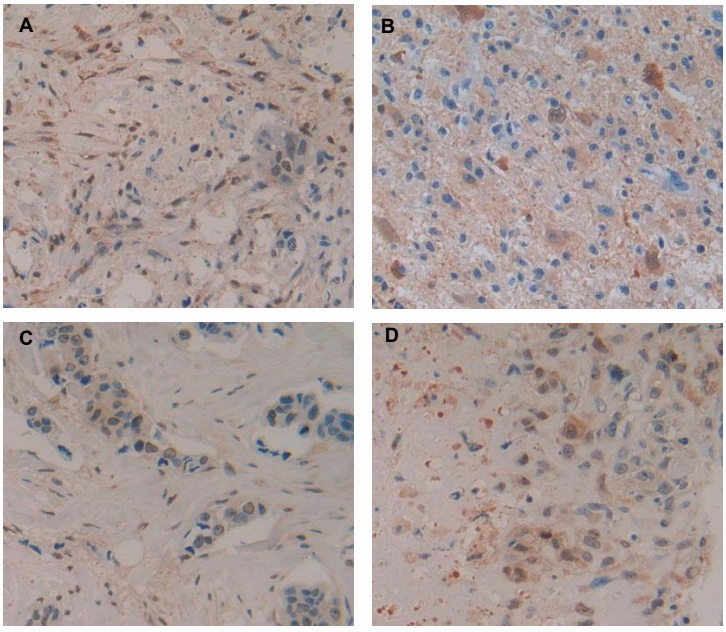


**Figure 2. DAB staining on IHC-P**

**Samples：**

**A. Human Pancreas Cancer Tissue**

**B. Human Glioma Tissue**

**C. Human Breast Cancer Tissue**

**D. Human Lung Cancer Tissue**