

#### **International Office**

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Research Use Only. Not for diagnostic or therapeutic use.

# EB08931 - Goat Anti-SEPT2 Antibody

Size: 100µg specific antibody in 200µl



### **Target Protein**

Principal Names: SEPT2, septin 2, DIFF6, KIAA0158, NEDD5, Pnutl3, hNedd5, neural

precursor cell expressed, developmentally down-regulated 5

Official Symbol: SEPTIN2

Accession Number(s): NP\_001008491.1; NP\_001269901.1; NP\_001269902.1;

NP\_001307958.1; NP\_001336231.1

Human GeneID(s): 4735

Non-Human GenelD(s): 18000 (mouse), 117515 (rat)

Important Comments: This antibody is expected to recognise::NP\_001008491.1 (iso a);

NP\_001269901.1 (iso b); NP\_001269902.1 (iso c); NP\_001307958.1; (iso d)

NP\_001336231.1 (iso f).

### **Immunogen**

Peptide with sequence SKQQPTQFINPET-C, from the N terminus of the protein sequence according to NP\_001008491.1; NP\_001269901.1; NP\_001269902.1; NP\_001307958.1; NP\_001336231.1.

Please note the peptide is available for sale.

### **Purification and Storage**

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

## **Applications Tested**

Peptide ELISA: antibody detection limit dilution 1:32000.

**Western blot:** Approx. 40kDa band observed in lysates of cell lines HepG2, Jurkat, HeLa and KNRK, and in Rat Testis lysates, and approx. 42kDa in lysates of cell lines K562 and NIH3T3, and in Human and Mouse Testis lysates (calculated MW of 41.5kDa according to human NIP, 0010084014, Mouse NIP, 0011531804, and Ret NIP, 4754804).

Human NP\_001008491.1, Mouse NP\_001153189.1 and Rat NP\_476489.1).

Recommended concentration: 1-2µg/ml. Primary incubation 1 hour at room temperature. **IHC:** Paraffin embedded Human Breast, Tonsil and Brain (Cortex). Recommended concentration: 2.5µg/ml.

**Immunofluorescence:** Strong expression of the protein seen in HeLa and U2OS cells.

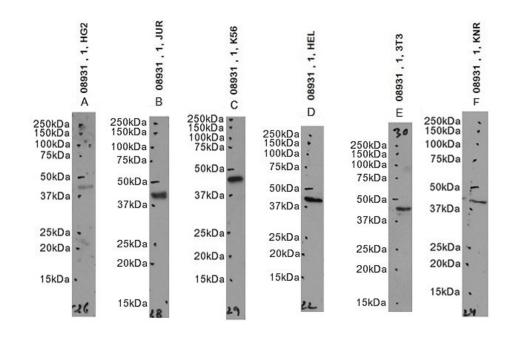
Recommended concentration: 10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of HeLa cells. Recommended concentration: 10ug/ml.

### **Species Reactivity**

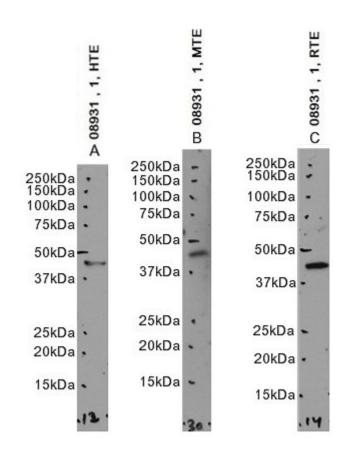
Tested: Human, Mouse, Rat

Expected from sequence similarity: Human, Mouse, Rat



EB08931 optimised QC. Primary incubation 1 hour at room temperature.

Images A, B, C, D, E and F: HepG2, Jurkat, K562, HEL, NIH3T3 and KNRK cell lysate at primary Ab concentration 1ug/ml.(Loaded 35µg protein in RIPA buffer, per lane). Detected by chemiluminescence.

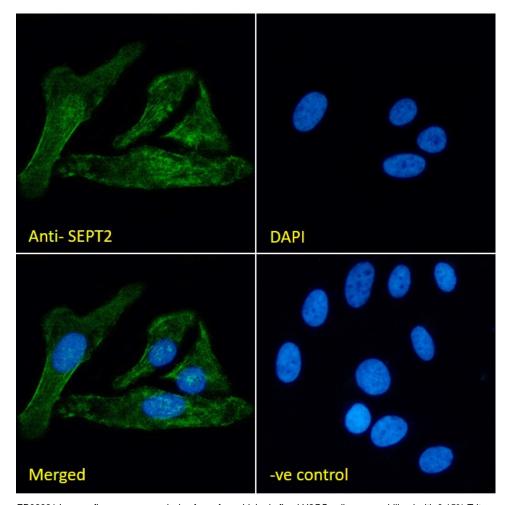


EB08931 optimised QC. Primary incubation 1 hour at room temperature.

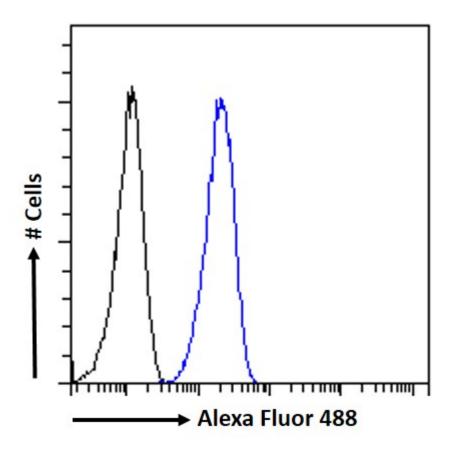
Images A, B, and C: Human, Mouse, Rat Testes lysate at primary Ab concentration 1ug/ml. (Loaded 35µg protein in RIPA buffer, per lane). Detected by chemiluminescence.



EB08931 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane and nuclear staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

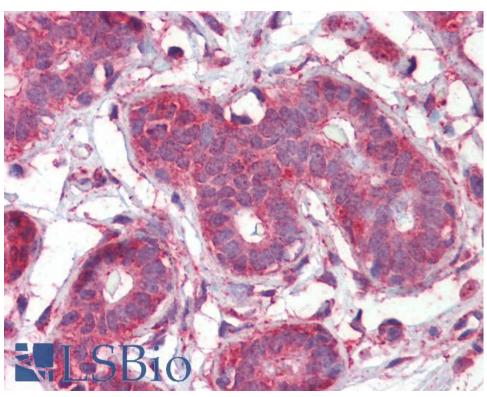


EB08931 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane, nuclear and filament staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

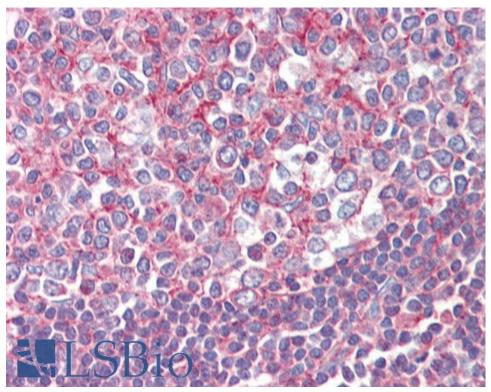


EB08931 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control:

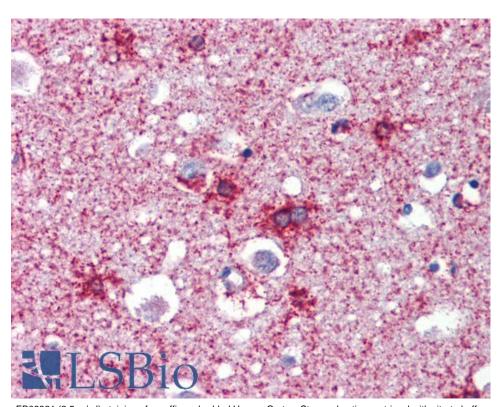
Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



EB08931 (2.5 $\mu$ g/ml) staining of paraffin embedded Human Breast. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB08931 (2.5 $\mu$ g/ml) staining of paraffin embedded Human Tonsil. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB08931 (2.5 $\mu$ g/ml) staining of paraffin embedded Human Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.