

### **UK Office**

Everest Biotech Ltd Cherwell Innovation Centre 77 Heyford Park Upper Heyford Oxfordshire OX25 5HD UK

Enquiries: info@everestbiotech.com Sales: sales@everestbiotech.com Tech support: support@everestbiotech.com

Tel: +44 (0)1869 238326 Fax: +44 (0)1869 238327

# **US Office**

#### Everest Biotech c/o Abcore

405 Maple Street, Suite A106 Ramona, CA 92065 USA

Inquiries: info@everestbiotech.com Sales: usasales@everestbiotech.com Tech support: support@everestbiotech.com

Tel: 888-320-4628 (toll-free) Fax: 888-841-9041

www.everestbiotech.com

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### EB10027 - Goat Anti-POU3F3 / BRN1 / OCT8 Antibody

Size: 100µg specific antibody in 200µl



### **Target Protein**

Principal Names: Brain-1, BRN1, OTF8, POU class 3 homeobox 3, POU domain, class 3, transcription factor 3, POU3F3, OTF-8, brain-specific homeobox/POU domain protein 1, brn-1, oct-8, octamer-binding protein 8, octamer-binding transcription factor 8
Official Symbol: POU3F3
Accession Number(s): NP\_006227.1
Human GenelD(s): 5455
Non-Human GenelD(s): 18993 (mouse), 192109 (rat)

### Immunogen

Peptide with sequence C-HMLSHAHQWVTAL, from the internal region of the protein sequence according to NP\_006227.1.

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 1:4000.

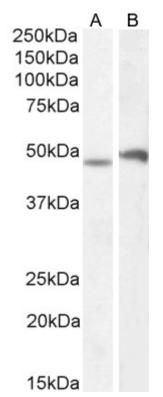
**Western blot:** Approx 48kDa band observed in Mouse Spinal Cord lysates and approx. 50kDa in Mouse Brain lysates (calculated MW of 50.3kDa according to Human NP\_006227.1 and 50.2kDa according to Mouse NP\_032926.2). Recommended concentration: 1-3µg/ml. Primary incubation 1 hour at room temperature.

**Immunofluorescence:** Strong expression of the protein seen in the nuclei of Neuro-2a cells. Recommended concentration: 10µg/ml.

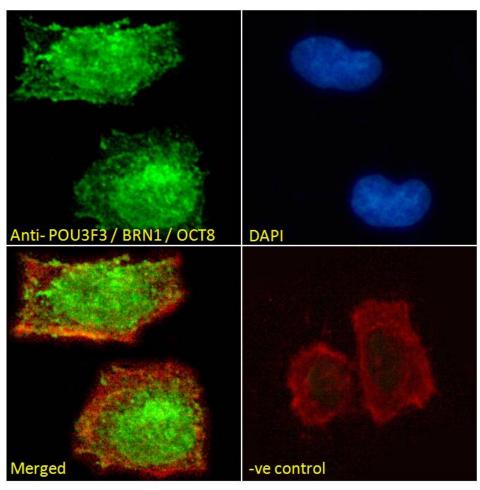
**Flow Cytometry:** Flow cytometric analysis of Neuro-2a cells. Recommended concentration: 10ug/ml.

### **Species Reactivity**

Tested: Mouse Expected from sequence similarity: Human, Mouse, Rat

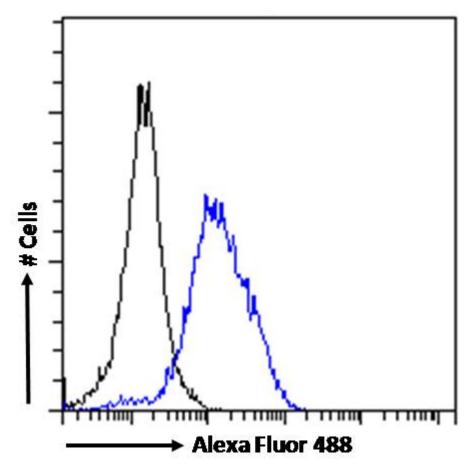


EB10027 (1µg/ml) staining of Mouse Spinal Cord (A) and Brain (B) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB10027 Immunofluorescence analysis of paraformaldehyde fixed Neuro-2a cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing

nuclear staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB10027 Flow cytometric analysis of paraformaldehyde fixed Neuro-2a 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.