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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## 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 GeneID(s):** [5455](#)

**Non-Human GeneID(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.

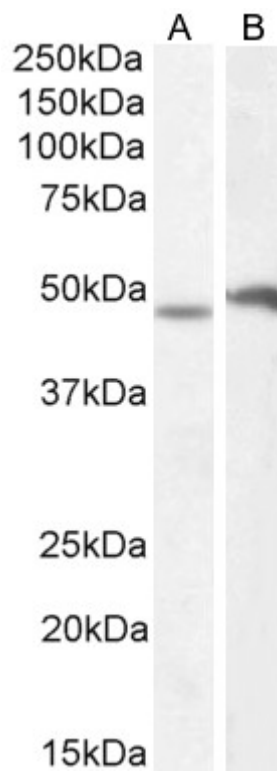
**Immunofluorescence:** Strong expression of the protein seen in the nuclei of Neuro-2a cells. Recommended concentration: 10µg/ml.

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

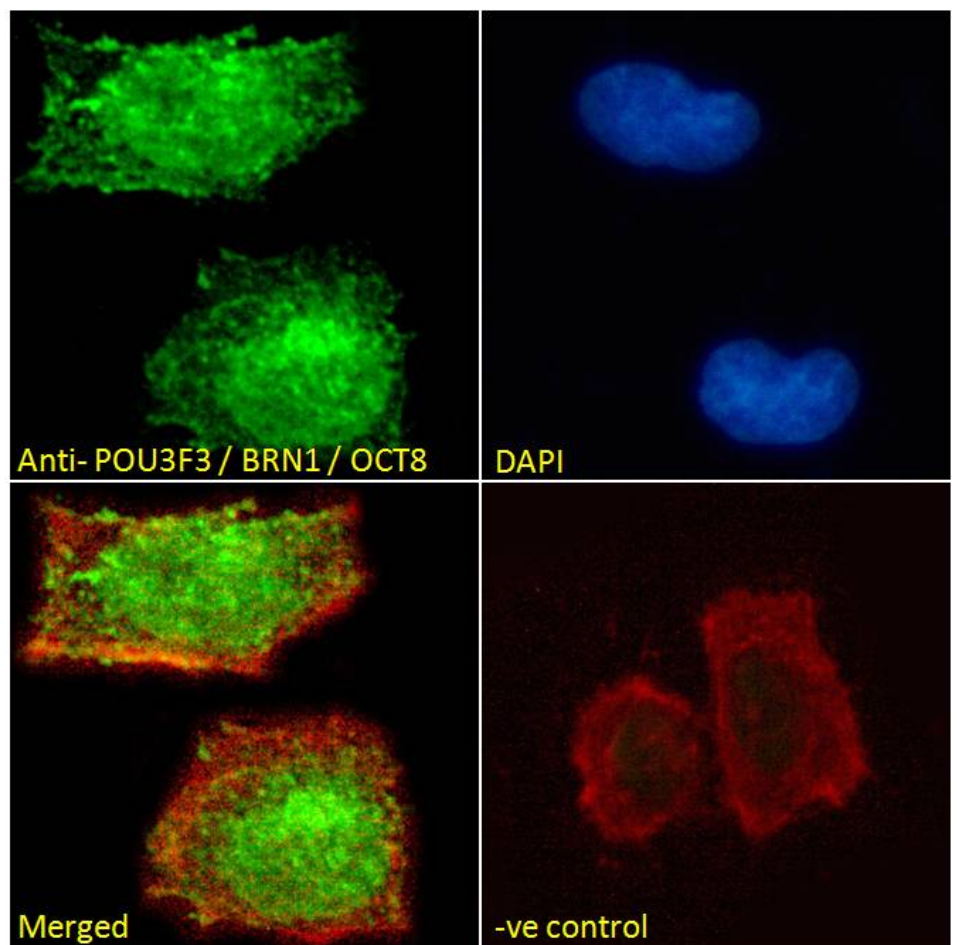
### Species Reactivity

**Tested:** Mouse

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

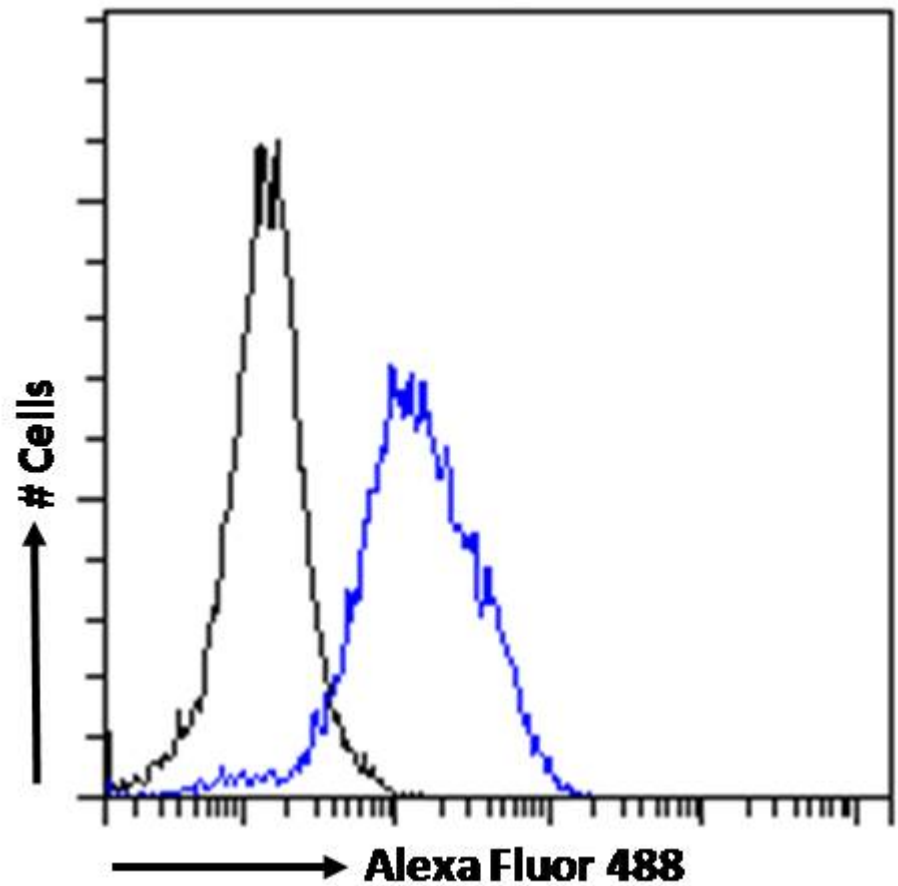


EB10027 (1 $\mu$ g/ml) staining of Mouse Spinal Cord (A) and Brain (B) lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



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