bs-3669R **[Primary Antibody]**

BRN3A Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5457 **SWISS:** Q01851

Target: BRN3A

Immunogen: KLH conjugated synthetic peptide derived from human BRN3A: 325-419/419.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This gene encodes a member of the POU-IV class of neural transcription factors. This protein is expressed in a subset of retinal ganglion cells and may be involved in the developing sensory nervous system. This protein may also promote the growth of cervical tumors. A translocation of this gene is associated with some adult acute myeloid leukemias. [provided by RefSeq, Mar 2012].

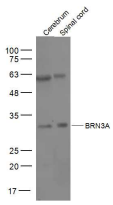
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/test)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Chicken, Dog)

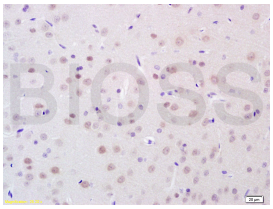
Predicted MW.: 43 kDa

Subcellular Location: Nucleus

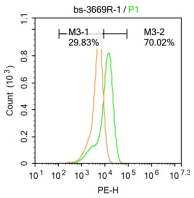
VALIDATION IMAGES



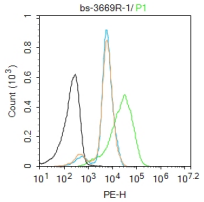
Sample: Cerebrum (Mouse) Lysate at 40 ug Spinal cord (Mouse) Lysate at 40 ug Primary: Anti-BRN3A (bs-3669R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 33 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-BRN3A Polyclonal Antibody, Unconjugated(bs-0071R) 1:100, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



U-937 cells were fixed with 4% PFA for 10min at room temperature,permeabilized with 90% ice-cold methanol for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with BRN3A Antibody(bs-3669R)at 1:500 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2%BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).



Blank control: Jurkat. Primary Antibody (green line): Rabbit Anti-BRN3A antibody (bs-3669R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution:

1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20°C.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=17.839]** Xue, Yuanchao, et al. "Sequential regulatory loops as key gatekeepers for neuronal reprogramming in human cells." Nature Neuroscience (2016). ICC ;="Human". 27110916
- **[IF=10.19]** Zhuhe Liu. et al. CXCL7 aggravates the pathological manifestations of neuromyelitis optica spectrum disorder by enhancing the inflammatory infiltration of neutrophils, macrophages and microglia. CLIN IMMUNOL. 2022 Sep;:109139 IF ;Mouse. 36184052
- **[IF=5.988]** Yifan Song. et al. Matrine promotes mitochondrial biosynthesis and reduces oxidative stress in experimental optic neuritis. FRONT PHARMACOL. 2022; 13: 936632 IF ;Rat. 36238552
- **[IF=3.84]** Bell, Katharina, et al. "Neuroprotective effects of antibodies on retinal ganglion cells in an adolescent retina organ culture." Journal of Neurochemistry (2016). IHC ;="Pig". 27507598
- **[IF=3.77]** Siqi Li. et al. Structural damage to the rat eye following long-term simulated weightlessness. EXP EYE RES. 2022 Oct;223:109200 IF ;Rat. 35932903