bs-1095R **[Primary Antibody]**

Orexin receptor 1+2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3061 **SWISS:** O43613

Target: Orexin receptor 1+2

Immunogen: KLH conjugated synthetic peptide derived from human Orexin receptor 1/2: 321-425/444. < Cytoplasmic >

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: The protein encoded by this gene is a G-protein coupled receptor involved in the regulation of feeding behavior. The encoded protein binds the hypothalamic neuropeptides orexin A and orexin B. A related gene (HCRTR1) encodes a G-protein coupled receptor that selectively binds orexin A. [provided by RefSeq, Jan 2009]

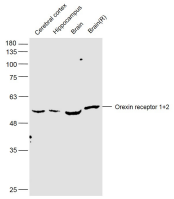
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

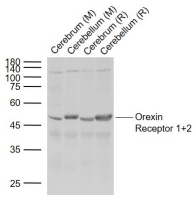
Predicted MW.: 50 kDa

Subcellular Location: Cell membrane

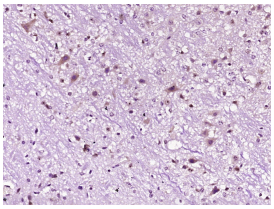
VALIDATION IMAGES



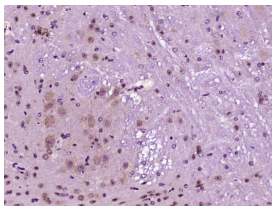
Sample: Cerebral cortex (Mouse) Lysate at 40 ug Hippocampus (Mouse) Lysate at 40 ug Brain (Mouse) Lysate at 40 ug Brain (Rat) Lysate at 40 ug Primary: Anti- Orexin receptor 1+2 (bs-1095R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kD Observed band size: 50 kD



Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Mouse Cerebellum tissue lysates Lane 3: Rat Cerebrum tissue lysates Lane 4: Rat Cerebellum tissue lysates Primary: Anti-Orexin receptor 1+2 (bs-1095R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kD Observed band size: 50 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse Cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Orexin receptor 1+2) Polyclonal Antibody, Unconjugated (bs-1095R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Orexin receptor 1+2) Polyclonal Antibody, Unconjugated (bs-1095R) at 1:400 overnight at 4°C, followed by operating

according to SP Kit(Rabbit) (sp-0023)
instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=12.121]** Hui Fenget al. Orexin signaling modulates synchronized excitation in the sublaterodorsal tegmental nucleus to stabilize REM sleep. Nat Commun . 2020 Jul 21;11(1):3661. IHC ;Rats , mice. 32694504
- **[IF=5.5]** Qi-Cheng Qiao. et al. Orexin recruits non-selective cationic conductance and endocannabinoid to dynamically modulate firing of caudal pontine reticular nuclear neurones. J PHYSIOL-LONDON. 2023 Jul;: IHC ;Rat. 37421377