

bs-15509R**[Primary Antibody]****Orexin A Rabbit pAb****Bioss**
ANTIBODIES

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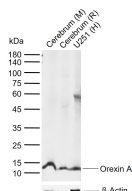
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— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) ELISA (1:5000-10000)
Clonality: Polyclonal		Reactivity: Human, Mouse, Rat
GeneID: 3060	SWISS: O43612	
Target: Orexin A		Predicted MW.: 13 kDa
Immunogen: KLH conjugated synthetic peptide derived from human Orexin A: 21-70/131.		Subcellular Location: Cytoplasm
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: Prepro-orexin is 130 amino acid long peptide with a putative 33 AA secretory sequence, a hydrophobic core followed by residues with small polar side chains. The expression was detected in brain and to a small extent in testis. These neuropeptides bind and activate two closely related Orexin receptors—G-protein coupled receptors (GPCRs) OX1R and OX2R. Orexins (Orexin A and Orexin B) are a family of hypothalamic neuropeptides selectively expressed in the hypothalamus. Orexin A and Orexin B are derived from the same precursor (Prepro-orexin) by proteolytic cleavage.		

— VALIDATION IMAGES —

Sample: Lane 1: Mouse Cerebrum tissue lysates
Lane 2: Rat Cerebrum tissue lysates Lane 3:
Human U251 cell lysates Primary: Anti- Orexin A
(bs-15509R) at 1/1000 dilution Secondary:
IRDye800CW Goat Anti-Rabbit IgG at 1/20000
dilution Predicted band size: 13 kDa Observed
band size: 12 kDa

— SELECTED CITATIONS —

- **[IF=9.3]** Guo Jing. et al. Therapeutic effects of orexin-A in sepsis-associated encephalopathy in mice. J NEUROINFLAMM. 2024 Dec;21(1):1-19 WB ;Mouse. 38760784
- **[IF=2.751]** De-Qi Yan. et al. Establishment of a chronic insomnia rat model of sleep fragmentation using unstable platforms surrounded by water. EXP THER MED. 2023 May;25(5):1-12 IF ;Rat. 37114171
- **[IF=2.5]** Mohammad Saber Ebrahimi. et al. Orexin-A and BDNF in the Hippocampus of Middle-Aged Rats: Beneficial Effects of integrating Voluntary Physical Activity with Intermittent Fasting. PHYSIOL BEHAV. 2025 Jun;;115009 WB ;Rat. 40581286