

Orexin (D6G9T) Rabbit mAb

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IHC-P, IF-F	H M R	Endogenous (IHC-P, IF-F), Transfected (W)	16	Rabbit IgG	#O43612	3060

Product Usage Information	Application	Dilution
	Immunohistochemistry (Paraffin) Immunofluorescence (Frozen)	1:100 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	Orexin (D6G9T) Rabbit mAb recognizes endogenous levels of total orexin protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the sequence of the mature human orexin protein.	
Background	Orexin, also called HCRT or hypocretin, is expressed as a precursor that is processed into two biologically active neuropeptides called orexin-A (HCRT1) and orexin-B (HCRT2) (1). Orexin is expressed in the lateral and posterior hypothalamus and plays a role in feeding behavior (1). The orexin neuropeptides act by stimulating the two orexin receptors that belong to the G Protein-Coupled Receptors family (1). Orexin receptor 1 is mostly found in the hypothalamic region, while orexin receptor 2 is also found in the cerebral cortex and the nucleus accumbent (2). Orexin also plays a role in adipocyte homeostasis and is required for brown adipose tissue development, differentiation, and function (3).	
Background References	<ol style="list-style-type: none"> 1. Sakurai, T. et al. (1998) <i>Cell</i> 92, 573-85. 2. Trivedi, P. et al. (1998) <i>FEBS Lett</i> 438, 71-5. 3. Sellayah, D. et al. (2011) <i>Cell Metab</i> 14, 478-90. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen)
Cross-Reactivity Key	H: Human M: Mouse R: Rat
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