Datasheet for ABIN7603056

anti-Orexin antibody (Middle Region)

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Overview

Quantity:	100 µg
Target:	Orexin (OX)
Binding Specificity:	Middle Region
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Orexin antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	Anti-HCRT Antibody
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human HCRT, identical to the related mouse and rat sequences.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Anti-HCRT Antibody Picoband® (ABIN7603056). Tested in IF, IHC application. This antibody reacts with Mouse, Rat.
Purification:	Immunogen affinity purified.

Target Details

Target:	Orexin (OX)
Alternative Name:	HCRT (OX Products)
Background:	Synonyms: 70 kDa ribosomal protein S6 kinase 1 antibody, KS6B1_HUMAN antibody, p70 alpha antibody, P70 beta 1 antibody, p70 ribosomal S6 kinase alpha antibody, p70 ribosomal S6 kinase beta 1 antibody, p70 S6 kinase alpha antibody, P70 S6 Kinase antibody, p70 S6 kinase alpha 1 antibody, p70 S6 kinase alpha 2 antibody, p70 S6K antibody, p70 S6K-alpha antibody, p70 S6KA antibody, p70(S6K) alpha antibody, p70(S6K)-alpha antibody, p70-alpha antibody, p70-S6K 1 antibody, p70-S6K antibody, P70S6K antibody, P70S6K1 antibody, p70S6Kb antibody, PS6K antibody, Ribosomal protein S6 kinase 70 kDa polypeptide 1 antibody, Ribosomal protein S6 kinase beta 1 antibody, Ribosomal protein S6 kinase beta-1 antibody, Ribosomal protein S6 kinase I antibody, RPS6KB1 antibody, S6K antibody, S6K-beta-1 antibody, S6K1 antibody, Serine/threonine kinase 14 alpha antibody, Serine/threonine-protein kinase 14A antibody, STK14A antibody Tissue Specificity: Expressed in all tissues. Background: This gene encodes a hypothalamic neuropeptide precursor protein that gives rise to two mature neuropeptides, orexin A and orexin B, by proteolytic processing. Orexin A and orexin B, which bind to orphan G-protein coupled receptors HCRTR1 and HCRTR2, function in the regulation of sleep and arousal. This neuropeptide arrangement may also play a role in feeding behavior, metabolism, and homeostasis.
Molecular Weight:	100,150 kDa
Gene ID:	3060
UniProt:	O43612
Pathways:	Synaptic Membrane, Feeding Behaviour

Application Details

Application Notes:	Immunohistochemistry, 2-5 µg/mL, Mouse, Rat Immunofluorescence, 5 µg/mL, Mouse, Rat 1. Adamantidis, A. R., Zhang, F., Aravanis, A. M., Deisseroth, K., de Lecea, L. Neural substrates of awakening probed with optogenetic control of hypocretin neurons. Nature 450: 420-424, 2007. 2. Arii, J., Kanbayashi, T., Tanabe, Y., Sawaishi, Y., Kimura, S., Watanabe, A., Mishima, K., Hishikawa, Y., Shimizu, T., Nishino, S. CSF hypocretin-1 (orexin-A) levels in childhood narcolepsy and neurologic disorders. Neurology 63: 2440-2442, 2004. 3. Blouin, A. M., Thannickal, T. C., Worley, P. F., Baraban, J. M., Reti, I. M., Siegel, J. M. Narp immunostaining of human hypocretin

Application Details

	(orexin) neurons: loss in narcolepsy. Neurology 65: 1189-1192, 2005.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.