DATASHEET

Orexin A Mouse Monoclonal Antibody(ARA519)

CAT. NO. ARA5845

KEY FEATURES

Target	Orexin A	**Source/Host**	Mouse
Reactivity	Human, Mouse, Rat	**Clonality**	Monoclonal
Applications	WB,IP,IF/ICC,IHC	**Conjugation**	Unconjugated
Isotype	IgG1 kappa	**Storage**	at 4°C

BACKGROUND

Orexin-A, also known as hypocretin-1, is a hypothalamic neuropeptide derived together with Orexin-B (hypocretin-2) from a single precursor, prepro-orexin, by proteolytic processing. Orexin-A is encoded by the HCRT gene and binds to and activates two closely related G protein-coupled receptors, Orexin receptor-1 and Orexin receptor-2, which integrate the endocrine and nervous systems. Orexin-A protein and prepro-orexin mRNA are localized to neurons within the lateral hypothalamus, the feeding center, and prepro-orexin mRNA is upregulated during fasting, suggesting a role in the central feedback mechanism regulating feeding behavior. Orexin signaling also regulates sleep-wakefulness, arousal, energy homeostasis, temperature and thirst, and has been shown to increase the release of GABA and glutamate in the hypothalamic region. Dysregulation of the orexin system is associated with narcolepsy and other disorders.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:100 - 1:1000
IHC	1:50 - 1:500
IF/ICC	1:50 - 1:500
IP	1-2 µg per 100-500 µg of total protein

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Orexin A Mouse Monoclonal Antibody(ARA519) for WB, IP, IF, IHC
Specificity	Orexin A Mouse Monoclonal Antibody(ARA519) detects Orexin-A of mouse, rat and human origin in WB, IP, IF and IHC (including paraffin-embedded sections) applications. Non cross-reactive with Orexin-B.
Antibody Type	Primary antibody
Immunogen	Mouse monoclonal antibody raised against amino acids 34-66 of Orexin-A of human origin.
Molecular Weight	Observed: 13 kDa
Purification	Purified mouse monoclonal antibody supplied in PBS.
Isotype	IgG1 kappa
Form/Buffer	Each vial contains 50 µg IgG1 kappa light chain in 0.5 ml of PBS with < 0.1% sodium azide and protein stabilizer.
Alternative Names	Hypocretin-1, HCRT, PPOX, Orexin, Hypocretin neuropeptide precursor
Gene Symbol	HCRT
Entrez Gene	3060
SwissProt	O43612

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

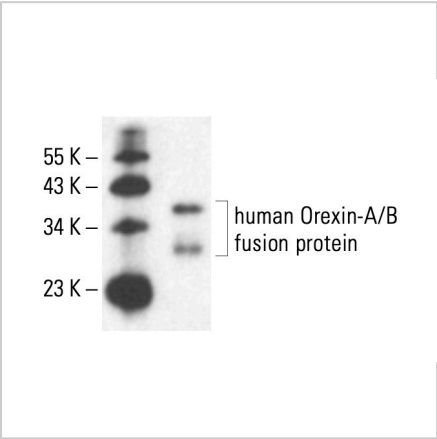
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA



Western blot analysis of human recombinant Orexin-A/B fusion protein using Orexin A Mouse Monoclonal Antibody(ARA519).

STORAGE

Store at 4°C, DO NOT FREEZE. Stable for one year from the date of shipment.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com