Datasheet for ABIN7599013

anti-C4orf49 antibody (AA 1-155)

Go to Product page

Overview

Quantity:	100 µg
Target:	C4orf49
Binding Specificity:	AA 1-155
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This C4orf49 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-MGARP Antibody Picoband®
Immunogen:	E.coli-derived human C4orf49/MGARP recombinant protein (Position: M1-E155). Human C4orf49/MGARP shares 67.3% amino acid (aa) sequence identity with mouse C4orf49/MGARP.
Characteristics:	Anti-MGARP Antibody Picoband® (ABIN7599013). Tested in WB, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	C4orf49
Alternative Name:	MGARP (C4orf49 Products)
Background:	MGARP is highly enriched in steroidogenic tissues and the visual system. Interestingly, its expression increases as mice develop. Early in development, MGARP is mainly detected in the retina and adrenal gland. At this early developmental stage, its expression is not detectable in the gonads, but its expression in the gonads dramatically increases during the first 2-4 wk after birth. Importantly, MGARP levels correlate with estrogen levels in the ovaries during the estrous cycle, and estrogen regulates the expression of MGARP in a tissue-specific manner and through a feedback regulatory mechanism. Functional inhibition of GnRH with an antagonist strongly reduces MGARP levels, and knockout of leptin (ob/ob) significantly reduces the MGARP expression in follicular granular cells. We proposed a model that elucidates the role MGARP plays in the HPG axis. Within the HPG axis loop, MGARP participates in hormone biosynthesis while being under the regulation of the hormones derived from the HPG axis.
Molecular Weight:	38 kDa
Gene ID:	84709

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Human, Mouse, Rat ELISA, 0.1-0.5 µg/mL, - 1. Jia, L., Liang, T., Yu, X., Ma, C., Zhang, S. MGARP regulates mouse neocortical development via mitochondrial positioning. Molec. Neurobiol. 49: 1293-1308, 2014. 2. Matsumoto, T., Minegishi, K., Ishimoto, H., Tanaka, M., Hennebold, J. D., Teranishi, T., Hattori, Y., Furuya, M., Higuchi, T., Asai, S., Kim, S. H., Miyakoshi, K., Yoshimura, Y. Expression of ovary-specific acidic protein in steroidogenic tissues: a possible role in steroidogenesis. Endocrinology 150: 3353-3359, 2009. 3. Qi, S., Wang, Y., Zhou, M., Ge, Y., Yan, Y., Wang, J., Zhang, S. S.-M., Zhang, S. A mitochondria-localized glutamic acid-rich protein (MGARP/OSAP) is highly expressed in retina that exhibits a large area of intrinsic disorder. Molec. Biol. Rep. 38: 2869-2877, 2011.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Handling

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.