

Datasheet for ABIN7602763
anti-MC4R antibody (C-Term)



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Overview

Quantity:	100 µg
Target:	MC4R
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MC4R antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-MC4-R/MC4R Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human MC4-R/MC4R, which shares 88.5% and 80.8% amino acid (aa) sequence identity with mouse and rat MC4-R/MC4R, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-MC4-R/MC4R Antibody (ABIN7602763). Tested in Flow Cytometry, IF, IHC, ICC, WB 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

Product Details

designated as Picoband, ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: MC4R

Alternative Name: MC4R ([MC4R Products](#))

Background: Synonyms: Melanocortin receptor 4, MC4-R, MC4R
Tissue Specificity: Brain, placental, and gut tissues.
Background: Melanocortin receptor 4 is a protein that in humans is encoded by the MC4R gene. This gene is mapped to 18q21.32. The protein encoded by this gene is a membrane-bound receptor and member of the melanocortin receptor family. The encoded protein interacts with adrenocorticotrophic and MSH hormones and is mediated by G proteins. This is an intronless gene. Defects in this gene are a cause of autosomal dominant obesity.

Molecular Weight: 37 kDa

Gene ID: 4160

UniProt: [P32245](#)

Pathways: [Hormone Transport](#), [cAMP Metabolic Process](#), [Feeding Behaviour](#)

Application Details

Application Notes: Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat
Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human
Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human
Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human
1. Hardy, R., Wills, A. K., Wong, A., Elks, C. E., Wareham, N. J., Loos, R. J. F., Kuh, D., Ong, K. K. Life course variations in the associations between FTO and MC4R gene variants and body size. Hum. Molec. Genet. 19: 545-552, 2010. 2. Hebebrand, J., Geller, F., Dempfle, A., Heinzl-Gutenbrunner, M., Raab, M., Gerber, G., Wermter, A.-K., Horro, F. F., Blundell, J., Schafer, H., Remschmidt, H., Herpertz, S., Hinney, A. Binge-eating episodes are not characteristic of carriers of melanocortin-4 receptor gene mutations. Molec. Psychiat. 9: 796-800, 2004. 3. Heid, I. M., Vollmert, C., Hinney, A., Doring, A., Geller, F., Lowel, H., Wichmann, H.-E., Illig, T., Hebebrand, J., Kronenberg, F., the KORA group. Association of the 1031 MC4R allele with decreased body mass in 7937 participants of two population based surveys. J. Med. Genet. 42: e21, 2005. Note:

Application Details

	Electronic Article.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 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, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store 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 freeze-thaw cycles.