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TAC3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant TAC3.
Catalog # AT4132a

Product Information

Application	WB, E
Primary Accession	Q9UHF0
Other Accession	BC032145
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	2D7
Calculated MW	13438

Additional Information

Gene ID	6866
Other Names	Tachykinin-3, ZNEUROK1, Neurokinin-B, NKB, Neuromedin-K, TAC3, NKNB
Target/Specificity	TAC3 (AAH32145, 17 a.a. ~ 121 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	TAC3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

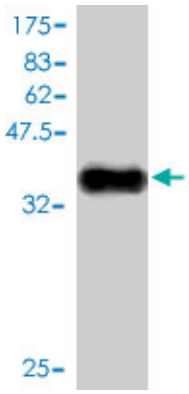
This gene encodes a member of the tachykinin family of secreted neuropeptides. The encoded protein is primarily expressed in the central and peripheral nervous system and functions as a neurotransmitter. This protein is the ligand for the neurokinin-3 receptor. This protein is also expressed in the outer syncytiotrophoblast of the placenta and may be associated with pregnancy-induced hypertension and pre-eclampsia. Mutations in this gene are associated with normosmic hypogonadotropic hypogonadism. Alternate splicing results in multiple transcript variants.

References

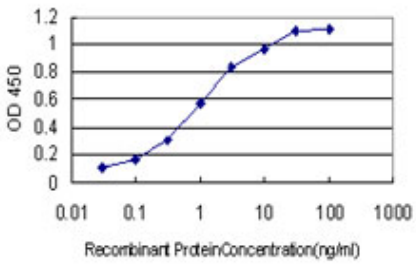
Common variants of the neuropeptide expressing tachykinin genes and susceptibility to asthma: a

case-control study. Klassert TE, et al. J Neuroimmunol, 2010 Oct 8. PMID 20580442.Neurokinin B and its receptor in hypogonadotropic hypogonadism. Semple RK, et al. Front Horm Res, 2010. PMID 20389091.TAC3/TACR3 mutations reveal preferential activation of gonadotropin-releasing hormone release by neurokinin B in neonatal life followed by reversal in adulthood. Gianetti E, et al. J Clin Endocrinol Metab, 2010 Jun. PMID 20332248.TAC3 and TACR3 defects cause hypothalamic congenital hypogonadotropic hypogonadism in humans. Young J, et al. J Clin Endocrinol Metab, 2010 May. PMID 20194706.Neurokinin B signaling in puberty: human and animal studies. Topaloglu AK. Mol Cell Endocrinol, 2010 Aug 5. PMID 20176081.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.07 KDa) .



Detection limit for recombinant GST tagged TAC3 is approximately 0.1ng/ml as a capture antibody.