Datasheet: AHP1492

BATCH NUMBER 149578

Description:	RABBIT ANTI TACR3
Specificity:	TACR3
Other names:	NK3R
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			5ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			0.5 - 1.0ug/ml
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)**This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.**

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to human TACR3 was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	An 18 amino acid peptide from near the centre of human TACR3.
External Database Links	**UniProt:** P29371 Related reagents **Entrez Gene:** 6870 TACR3 Related reagents
Synonyms	NK3R, TAC3R
RRID	AB_2200923
Specificity	**Rabbit anti Human TACR3 antibody** recognizes human TACR3 otherwise known as NK3 Receptor (NK3R), a 52.2 kDa multi-pass membrane protein belonging to the G-protein coupled receptor 1 family. TACR3 is a receptor for the tachykinin neuropeptide, neuromedin-k otherwise known as neurokinin B and is highly expressed in the supraoptic and paraventricular nuclei. Following binding of its ligand, NK3R activates a phosphatidylinositol-calcium second messenger system, and it is likely that these signals lead to the release of vasopressin and oxytocin into the circulation. Studies with mice indicate that TACR3 is involved in learning and memory. Rabbit anti Human TACR3 antibody (**AHP1492**) does not recognize NK1R or NK2R.
Histology Positive Control Tissue	Human brain
Western Blotting	AHP1492 detects a band of approximately 46kDa in RAW264.7 cell lysates.
Further Reading	1. Haley, G.E. & Flynn, F.W. (2007) Tachykinin NK3 receptor contribution to systemic release of vasopressin and oxytocin in response to osmotic and hypotensive challenge. Am J Physiol Regul Integr Comp Physiol. 293 (2): R931-7. 2. Ding, Y.Q. *et al.* (1999) Neurokinin B receptor (NK3)-containing neurons in the paraventricular and supraoptic nuclei of the rat hypothalamus synthesize vasopressin and

express Fos following intravenous injection of hypertonic saline. Neuroscience. 91 (3): 1077-85.
3. Maggi, C.A. (1995) The mammalian tachykinin receptors. Gen Pharmacol. 26 (5): 911-44.
4. Nakajima, Y. *et al.* (1992) Direct linkage of three tachykinin receptors to stimulation of both phosphatidylinositol hydrolysis and cyclic AMP cascades in transfected Chinese hamster ovary cells. J Biol Chem. 267 (4): 2437-42.

Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP1492 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP

Recommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)
TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com
Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com
Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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