MULTISPAN
One-Stop Shop for GPCR Research

MULTISCREEN^{TM} STABLE CELL LINE
HUMAN RECOMBINANT VPAC2 RECEPTOR

Data sheet

PRODUCT INFORMATION

Catalog Number: H1293

Lot Number: H1293-040313

Quantity: 1 vial (2 x 10^6) frozen cells

Freeze Medium: Sigma Freezing Medium (C-6164)

Host cell: HEK293T

Transfection: Full-length Human VIPR2 cDNA (GenBank Accession Number NM_003382.4) with FLAG-tag sequence at the N-terminus

Recommended Storage: Liquid nitrogen upon receiving

Propagation Medium: DMEM, 10% FBS, 1 μg/mL puromycin

Stability: In progress

Background: VIPR1 (Vasoactive intestinal polypeptide receptor 1) is also known as PACAP type II receptor (pituitary adenylate cyclase activating polypeptide type II receptor). It is a receptor for both vasoactive intestinal polypeptide and pituitary adenylate cyclase activating polypeptide, and therefore more popularly known as VPAC1. VIP is a neuromodulator and growth regulator in the developing nervous system. Both VIPR1 and VIPR2 are highly expressed in central primitive neuroectodermal tumors and mediate the growth modulation of VIP in these tumors. VIPR1 gene is mapped to human 3p22-p21 where loss-of-heterozygosity is observed in small-cell lung carcinoma (SCLC) cell lines and primary tumors..

Application: Functional assays

Figure 1

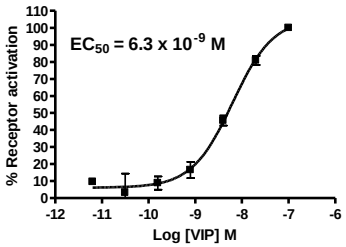

Figure 2

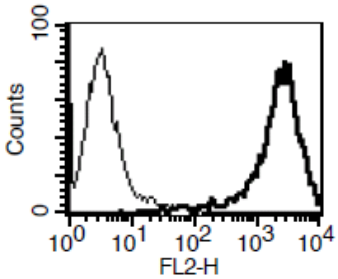

Figure 1. Dose-dependent stimulation of intracellular cAMP accumulation upon treatment with ligand, measured with cAMP HiRange kit (Cisbio 62AM6PEC). **Figure 2.** Receptor expression on cell surface measured by flow cytometry (FACS) using an anti-FLAG antibody. Thin line: parental cells; thick line: receptor-expressing cells.

References:

Karacay *et al.* (2001) Expression and fine mapping of murine vasoactive intestinal peptide receptor 1. *J Mol Neurosci* 17:311-324.

FOR RESEARCH USE ONLY.

www.multispaninc.com
sales@multispaninc.com
support@multispaninc.com

Phone: +1 (510) 887-0817
Fax: +1 (510) 887-0863
26219 Eden Landing Road
Hayward, CA 94545-3718
U.S.A.

Ver. October 2005

Fruhwald *et al.* (1999) Vasoactive intestinal peptide (VIP) and VIP receptors: gene expression and growth modulation in medulloblastoma and other central primitive neuroectodermal tumors of childhood. *Int J Cancer* 81:165-173.

FOR RESEARCH USE ONLY.

www.multispaninc.com
sales@multispaninc.com
support@multispaninc.com

Phone: +1 (510) 887-0817
Fax: +1 (510) 887-0863
26219 Eden Landing Road
Hayward, CA 94545-3718
U.S.A.

Ver. October 2005