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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

PRODUCT INFORMATION

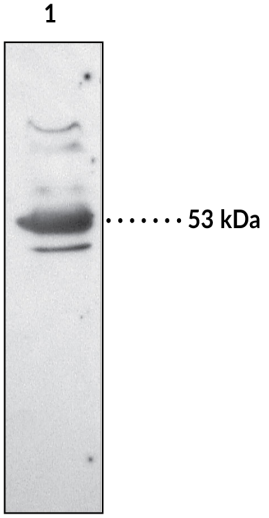
EP_3 Receptor Polyclonal Antibody

Item No. 101760

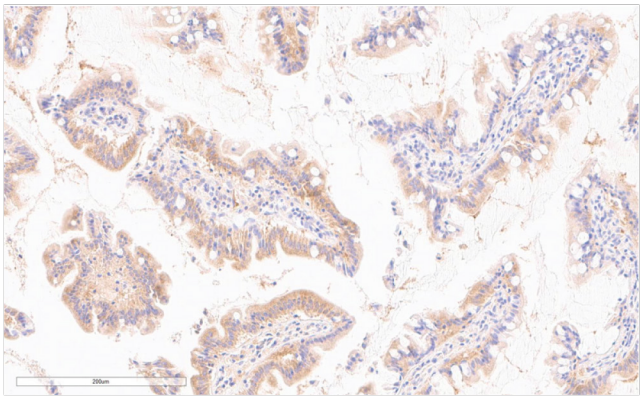
Overview and Properties

Contents:	This vial contains 500 µl of peptide affinity-purified antibody.
Synonyms:	PGE_2 Receptor 3, Prostaglandin E_2 Receptor 3
Immunogen:	Synthetic peptide from an internal region of human EP_3 receptor
Cross Reactivity:	(+) EP_3 receptor; (-) EP_1, EP_2, and EP_4 receptors
Species Reactivity:	(+) Human, bovine, mouse, and rat; other species not tested.
Uniprot No.:	P43115
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	≥3 years
Storage Buffer:	PBS, pH 7.2, with 0.02% sodium azide and 50% glycerol
Host:	Rabbit
Applications:	Immunocytochemistry (ICC), immunohistochemistry (IHC), and Western blot (WB); the recommended starting dilution for IHC and WB is 1:120 and 1:200, respectively. *NOTE: The EP_3 receptor appears to be expressed at low levels in many tissues and cell types, potentially making detection by immunochemical techniques difficult*. ICC and other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Images



Lane 1: Rat sensory neuron (20 µg)



Immunohistochemistry analysis of formalin-fixed, paraffin-embedded (FFPE) human small intestine tissue after heat-induced antigen retrieval in pH 6.0 citrate buffer. After incubation with EP_3 Receptor Polyclonal Antibody (Item No. 101760) at a 1:120 dilution, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen (DAB).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM

PRODUCT INFORMATION

Description

The biological effects of prostaglandin E_2 (PGE_2) are mediated through interaction with four distinct membrane-bound G-protein coupled EP receptors: EP_1, EP_2, EP_3, and EP_4.[1,2] As a result of splice variation, the EP_3 receptor can be expressed as multiple isoforms that differ in the length and sequence of their C-terminal tails.[2,3] The signal transduction mechanism varies depending on the isoform being expressed, implicating the importance of the C-terminal region of the receptor for coupling to G-proteins.[2,3] The EP_3 receptor is expressed in a variety of tissues with highest levels in kidney, pancreas, and uterus.[3-5]

References

1. Coleman, R.A., Eglen, R.M., Jones, R.L., *et al.* Classification of prostanoid receptors IUPHAR receptor compendium. *IUPHAR Compendium* 1-12 (1997).
2. Narumiya, S., Sugimoto, Y., and Ushikubi, F. Prostanoid receptors: Structures, properties, and functions. *Physiol. Rev.* **79**, 1193-1226 (1999).
3. Kotani, M., Tanaka, I., Ogawa, Y., *et al.* Molecular cloning and expression of multiple isoforms of human prostaglandin E receptor EP_3 subtype generated by alternative messenger RNA splicing: Multiple second messenger systems and tissue-specific distributions. *Mol. Pharmacol.* **48**, 869-879 (1995).
4. Sugimoto, Y., Namba, T., Honda, A., *et al.* Cloning and expression of a cDNA for mouse prostaglandin E receptor EP_3 subtype. *J. Biol. Chem.* **267**, 6463-6466 (1992).
5. Yang, J., Xia, M., Goetzl, E.J., *et al.* Cloning and expression of the EP_3-subtype of human receptors for prostaglandin E_2. *Biochem. Biophys. Res. Commun.* **198**, 999-1006 (1994).

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