



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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# PRODUCT INFORMATION



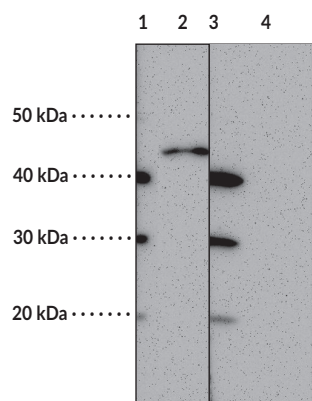
## GPR41 (Internal) Polyclonal Antibody

Item No. 16363

### Overview and Properties

**Contents:** This vial contains 500  $\mu$ l of peptide affinity-purified polyclonal antibody.  
**Synonyms:** Free Fatty Acid Receptor 3, G Protein-Coupled Receptor 41  
**Immunogen:** Synthetic peptide from the internal region of human GPR41  
**Species Reactivity:** (+) Human; other species not tested  
**Uniprot No.:** O14843  
**Form:** Liquid  
**Storage:** -20°C (as supplied)  
**Stability:**  $\geq$ 3 years  
**Storage Buffer:** PBS, pH 7.2, with 50% glycerol and 0.02% sodium azide  
**Host:** Rabbit  
**Applications:** ELISA and Western blot (WB); the recommended starting dilution is 1:200. Other applications were not attempted and therefore optimal working dilutions should be determined empirically.

### Image



Lane 1: MW Markers  
Lane 2: MCF-7 cell lysate (50  $\mu$ g)  
Lane 3: MW Markers  
Lane 4: MCF-7 cell lysate (50  $\mu$ g)  
+ 10  $\mu$ g/ml immunizing peptide

WARNING  
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA  
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY  
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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# PRODUCT INFORMATION



## Description

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GPR41 is a G protein-coupled receptor activated by short chain fatty acids (SCFAs).<sup>1-3</sup> Several SCFAs have the potential to bind and activate GPR41, with pentanoate being the most potent agonist.<sup>2</sup> GPR41 couples through the Pertussis toxin-sensitive G<sub>i/o</sub> family and its expression has been described in adipose tissue and the colonic lumen.<sup>1-3</sup> The activation of GPR41 induces an increase in intracellular Ca<sup>2+</sup>, ERK1/2 activation and a decrease in intracellular cAMP.<sup>1-3</sup> Activation of GPR41 may be involved in intestinal inflammation. The predicted size for GPR41 is 39 kDa. Cayman's GPR41 (Internal) Polyclonal Antibody detects a 45 kDa band by WB in cell lysates.

## References

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1. Tazoe, H., Otomo, Y., Kaji, I., *et al.* Roles of short-chain fatty acids receptors, GPR41 and GPR43 on colonic functions. *J. Physiol. Pharmacol.* **59(Suppl 2)**, 251-262 (2008).
2. Brown, A.J., Goldsworthy, S.M., Barnes, A.A., *et al.* The orphan G protein-coupled receptors GPR41 and GPR43 are activated by propionate and other short chain carboxylic acids. *J. Biol. Chem.* **278(13)**, 11312-11319 (2003).
3. Le Poul, E., Loison, C., Struyf, S., *et al.* Functional characterization of human receptors for short chain fatty acids and their role in polymorphonuclear cell activation. *J. Biol. Chem.* **278(28)**, 25481-24591 (2003).

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