# abcam

### Product datasheet

## Anti-GNAT3 antibody ab113664

★★★★★ <u>1 Abreviews</u> <u>4 References</u> 1 Image

#### Overview **Product name** Anti-GNAT3 antibody Description Goat polyclonal to GNAT3 **Host species** Goat **Tested applications** Suitable for: IHC-P **Species reactivity** Reacts with: Human Predicted to work with: Mouse, Rat, Horse, Cow, Dog, Pig Immunogen Synthetic peptide: C-KNQFLDLNLKKEDKE (with a Cysteine residue linker), corresponding to internal sequence amino acids 304-318 of Human GNAT3 (NP 001095856.1) Run BLAST with Run BLAST with **Positive control** Human Small Intestine General notes The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties	
Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
lsotype	lgG

The Abpromise guarantee Our <u>Abpromise guarantee</u> covers the use of ab113664 in the following tested applications.

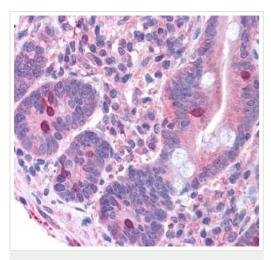
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 3.75 $\mu$ g/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

#### Target

	Calcium. GNAT3 can functionally couple to taste receptors to transmit intracellular signal: receptor heterodimer TAS1R2/TAS1R3 senses sweetness and TAS1R1/TAS1R3 transduces umami taste, whereas the T2R family GPCRs act as bitter sensors. Functions also as lumenal sugar sensors in the gut to control the expression of the Na+-glucose transporter SGLT1 in response to dietaty sugar, as well as the secretion of Glucagon-like peptide-1, GLP-1 and glucose-dependent insulinotropic polypeptide, GIP. Thus, may modulate the gut capacity to absorb sugars, with implications in malabsorption syndromes and diet-related disorders including diabetes and
	obesity.
1	Expressed in taste buds (sensory organs of clustered epithelial cells) of the circumvallate and foliate papillae of the tongue at protein level. Expressed in enteroendocrine L cells of the gut. Detected also in spermatozoa.
Sequence similarities	Belongs to the G-alpha family. G(i/o/t/z) subfamily.
Post-translational modifications	Potential N-myristoylation may anchor alpha-subunit to the inner surface of plasma membrane.
	Cytoplasm. Dual ditribution pattern; plasmalemmal pattern with apical region localization and cytosolic pattern with localization throughout the cytoplasm.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-GNAT3 antibody (ab113664)

Immunohistochemistry analysis of formalin-Fixed, paraffinembedded Human Small Intestine with ab113664 at 3.75 µg/ml.

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