abcam

Product datasheet

Anti-Anterior Gradient 2 antibody [IMG10E2] ab189361

2 Images

Overview

Product name	Anti-Anterior Gradient 2 antibody [IMG10E2]
Description	Mouse monoclonal [IMG10E2] to Anterior Gradient 2
Host species	Mouse
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
	Predicted to work with: Horse, Cow, Dog, Orangutan
Immunogen	Synthetic peptide within Human Anterior Gradient 2 aa 50-150 (internal sequence). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. NP_006399.1 Database link: **O95994**
	Run BLAST with **Run BLAST with**
Positive control	Human small intestine tissue; Human stomach, mouse stomach and rat stomach tissue lysate; HCT-116 cell lysate.
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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 99% PBS, 0.05% BSA
Purity	Protein G purified
Clonality	Monoclonal

Clone number	IMG10E2
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab189361 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
WB		Use a concentration of 4 - 6 µg/ml. Predicted molecular weight: 19 kDa.
IHC-P		Use a concentration of 10 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

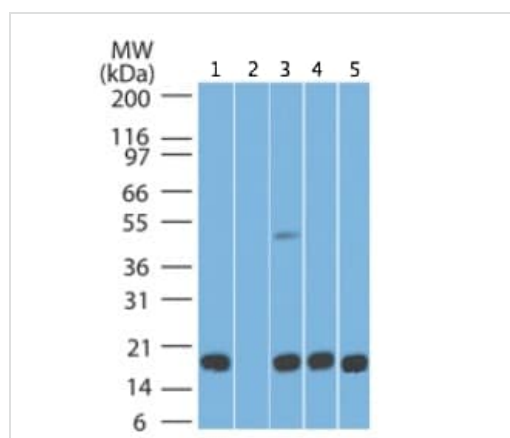## Target

Function	Required for MUC2 post-transcriptional synthesis and secretion. May play a role in the production of mucus by intestinal cells (By similarity). Proto-oncogene that may play a role in cell migration, cell differentiation and cell growth.
Tissue specificity	Expressed strongly in trachea, lung, stomach, colon, prostate and small intestine. Expressed weakly in pituitary gland, salivary gland, mammary gland, bladder, appendix, ovary, fetal lung, uterus, pancreas, kidney, fetal kidney, testis, placenta, thyroid gland and in estrogen receptor (ER)-positive breast cancer cell lines.
Sequence similarities	Belongs to the AGR family.
Cellular localization	Secreted. Endoplasmic reticulum.

Images

Western blot - Anti-Anterior Gradient 2 antibody [IMG10E2] (ab189361)

All lanes : Anti-Anterior Gradient 2 antibody [IMG10E2] (ab189361) at 5 µg/ml

Lane 1 : Human stomach lysate in the absence of immunizing peptide

Lane 2 : Human stomach tissue lysate in the presence of immunizing peptide

Lane 3 : mouse stomach tissue lysate
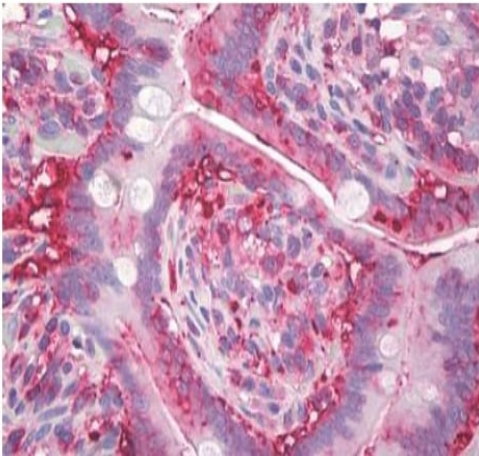
Lane 4 : rat stomach tissue lysate

Lane 5 : HCT-116 cell lysate

Secondary

All lanes : Goat anti-Mouse Ig HRP

Developed using the ECL technique.

Predicted band size: 19 kDa

Immunohistochemical analysis of formalin fixed, paraffin embedded Human small intestine tissue labeling Anterior Gradient 2 with ab189361 at 10 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Anterior Gradient 2 antibody [IMG10E2] (ab189361)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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