abcam

Product datasheet

Anti-MUC2 antibody [996/1] ab11197

5 Abreviews 39 References

Overview

Product name	Anti-MUC2 antibody [996/1]
Description	Mouse monoclonal [996/1] to MUC2
Host species	Mouse
Specificity	ab11197 recognises the human MUC2 mucin, and shows no cross-reactivity with MUC1, MUC3 or MUC4 mucins. In tissue sections ab11197 recognises colon, liver and prostate tissues strongly. The antibody recognises malignant colonic mucosa as well as normal mucosa.
Tested applications	**Suitable for:** IHC-Fr, WB, Flow Cyt, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to Human MUC2. Synthetic peptide: TPTPTGTQTP TTTPITTTTT VTPTPTPTGT QTPTTTPITT T This is from the tandem repeat are of the sequence and can be found starting at amino acids 1933 and 2163 Sequence: TPTPTGTQ TPTTTPITTT TTVTPTPTPT GTQTPTTTPI TTT Database link: **Q02817** Run BLAST with Run BLAST with
Positive control	Normal colon
General notes	We have removed mouse from our list of reactive species based on contradictory results from researchers. We have had increased reports of negative staining results in IHC-P with mouse tissue. We do not batch test this antibody with mouse and we will no longer guarantee it for mouse reactivity. Storage in frost free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use. 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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Protein G purified
Purification notes	Purified IgG prepared by affinity chromatography from tissue culture supernatant.
Clonality	Monoclonal
Clone number	996/1
Myeloma	NS0
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab11197 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-Fr		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 540 kDa.
Flow Cyt		Use at an assay dependent concentration.
IHC-P	★★★★★ (2)	Use at an assay dependent concentration.

Target

Function	Coats the epithelia of the intestines, airways, and other mucus membrane-containing organs. Thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces. Major constituent of both the inner and outer mucus layers of the colon and may play a role in excluding bacteria from the inner mucus layer.
Tissue specificity	Colon, small intestine, colonic tumors, bronchus, cervix and gall bladder.
Sequence similarities	Contains 1 CTCK (C-terminal cystine knot-like) domain. Contains 1 TIL (trypsin inhibitory-like) domain. Contains 2 VWFC domains. Contains 4 VWFD domains.
Post-translational modifications	O-glycosylated. May undergo proteolytic cleavage in the outer mucus layer of the colon, contributing to the expanded volume and loose nature of this layer which allows for bacterial colonization in contrast

	to the inner mucus layer which is dense and devoid of bacteria. At low pH of 6 and under, undergoes autocatalytic cleavage in vitro in the N-terminal region of the fourth VWD domain. It is likely that this also occurs in vivo and is triggered by the low pH of the late secretory pathway.
Cellular localization	Secreted. In the intestine, secreted into the inner and outer mucus layers.

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