abcam

Product datasheet

Anti-MUC5B antibody [19.4E] ab77995

★★★★★ **2 Abreviews**   **23 References**   1 Image

Overview

Product name	Anti-MUC5B antibody [19.4E]
Description	Mouse monoclonal [19.4E] to MUC5B
Host species	Mouse
Specificity	Does not react with human Mucin 5A or 5C.
Tested applications	**Suitable for:** ELISA, IHC-P, IHC-Fr, WB
Species reactivity	**Reacts with:** Mouse, Human, Monkey
Immunogen	Synthetic peptide corresponding to Human MUC5B (N terminal). Un-glycosylated, serine and threonine free synthetic peptide from the N terminal region of human MUC5B.
General notes	This product was changed from ascites to tissue culture supernatant on 31st May 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.
	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

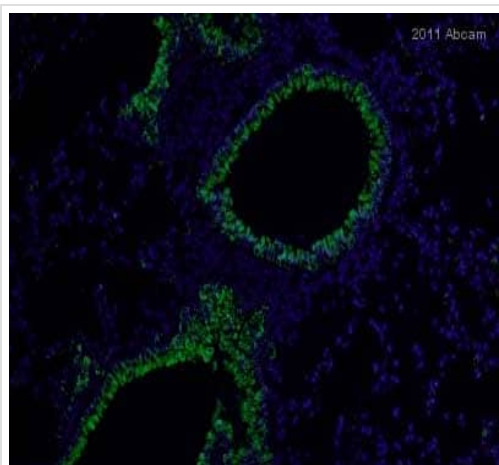|	
Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.1% Sodium azide Constituent: PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	19.4E
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab77995 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
ELISA		Use at an assay dependent concentration.
IHC-P	★★★★★ (1)	Use at an assay dependent concentration. Deglycosylating the tissue is critical to expose epitope.
IHC-Fr	★★★★★ (1)	Use at an assay dependent concentration.
WB		Use at an assay dependent concentration.

Target

Function	Gel-forming mucin that is thought to contribute to the lubricating and viscoelastic properties of whole saliva and cervical mucus.
Tissue specificity	Expressed on surface airway epithelia. Expressed mainly in mucous cells of submucosal glands of airway tissues. Highly expressed in the sublingual gland. Also found in submaxillary glands, endocervix, gall bladder, and pancreas.
Sequence similarities	Contains 1 CTCK (C-terminal cystine knot-like) domain. Contains 3 HAT repeats. Contains 3 TIL (trypsin inhibitory-like) domains. Contains 3 VWFC domains. Contains 4 VWFD domains.
Domain	The cysteine residues in the Cys-rich subdomain repeats are not involved in disulfide bonding.
Post-translational modifications	Highly glycosylated. C-, N- and O-glycosylated. C-mannosylated in the Cys-rich subdomains probably on the first Trp residue of the WXXW motif. Highly O-glycosylated in the Ser/Thr-rich tandem repeat (TR) region. The repeat region is about 59% O-glycosylated with a high abundance of NeuAc(2)Hex(1)HexNac1-ol.
Cellular localization	Secreted.

Images

ab77995 staining MUC5B in murine asthma lung tissue by Immunohistochemistry (Frozen sections). Tissue was fixed with formaldehyde, followed by incubation with the primary antibody at 4µg/ml for 16 hours at 4°C. ab77995 was coupled to biotin and Streptavidin 488 (1/250) was used to amplify the signal. Counterstained with DAPI (blue).

This image was generated using the ascites version of the product.

Immunohistochemistry (Frozen sections) - Anti-MUC5B antibody [19.4E] (ab77995)

Image courtesy of Dr Francois Daubeuf by Abreview.

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

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