

Datasheet: OBT1680

Description:	MOUSE ANTI HUMAN CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR
Specificity:	CFTR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	M3A7
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen (1)	▪			
Immunohistology - Paraffin		▪		
Immunoprecipitation	▪			
Western Blotting (2)	▪			10ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

(2)This antibody recognises a 170kDa band under native conditions.

Target Species	Human
Species Cross Reactivity	Does not react with:Mouse
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate Buffered Saline
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Fusion protein containing residues 1197-1480 of human CFTR (Chang et al. 1993).

**External Database
Links**

UniProt:

[P13569](#) [Related reagents](#)

Entrez Gene:

[1080](#) CFTR [Related reagents](#)

Synonyms

ABCC7

Specificity

Mouse anti Human Cystic Fibrosis Transmembrane Conductance Regulator antibody, clone M3A7 recognizes the human cystic fibrosis transmembrane conductance regulator (CFTR). It recognises an epitope localizing to the ABC transporter 2 domain, specifically to a region between amino acids 1370 to 1380.

**Protein Molecular
Weight**

170kDA

References

1. Kartner, N. *et al.* (1992) Mislocalization of delta F508 CFTR in cystic fibrosis sweat gland. [Nat Genet. 1 \(5\): 321-7.](#)
2. Kartner, N. & Riordan, J.R. (1998) Characterization of polyclonal and monoclonal antibodies to cystic fibrosis transmembrane conductance regulator. [Methods Enzymol. 292: 629-52.](#)
3. Chang, X.B. *et al.* (1993) Protein kinase A (PKA) still activates CFTR chloride channel after mutagenesis of all 10 PKA consensus phosphorylation sites. [J Biol Chem. 268 \(15\): 11304-11.](#)
4. Zhang, F. *et al.* (1998) Limited proteolysis as a probe for arrested conformational maturation of delta F508 CFTR. [Nat Struct Biol. 5 \(3\): 180-3.](#)
5. Benharouga, M. *et al.* (2001) COOH-terminal truncations promote proteasome-dependent degradation of mature cystic fibrosis transmembrane conductance regulator from post-Golgi compartments. [J Cell Biol. 153: 957-70.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10303 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- Goat Anti Mouse IgG (STAR76...) [RPE](#)
- Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)
- Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Human Anti Mouse IgG1 (HCA036...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
----------------------------------	---	------------------	---	---------------	---

'M286181:160429'

Printed on 13 Apr 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)