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Product Information Sheet

Anti-Tet-Repressor Antibodies

Special applications in molecular and cell biology

Product Description

The tetracycline (tet) regulatory system is widely used for selective target gene regulation in eukaryotic cells. MoBiTec now offers a unique set of polyclonal and monoclonal antibodies targeting the Tet-Repressor protein (TetR) for study of this popular system. These antibodies possess excellent binding properties and have been successfully tested for use in ELISA, Western blot and immunofluorescence assays. Two options for the monoclonal antibodies are offered. First an optimized mix consisting of two different epitope-specific monoclonal antibodies (TET02), and second a single monoclonal antibody, which can be used for immunofluorescence microscopy (TET03). The rabbit polyclonal antibody (TET01) can be used in all three above-mentioned applications. These antibodies provide an excellent new tool for elucidating the tet regulatory system.

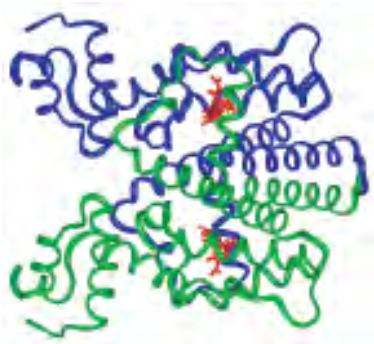

Fig.1: Structure of the Tet-Repressor (D)-[tc•Mg]$^{+}$ complex.[7] The folding of the polypeptide chain is represented by a ribbon diagram. The subunits are shown in different colors. Illustration provided by Dr. E. Pook, Institute of Microbiology and Biochemistry, University of Erlangen-Nürnberg, Germany.

Summary of the three antibodies

	TET01	TET02	TET03
Type	Rabbit polyclonal IgG	monoclonal IgG1;κ mix	monoclonal IgG1;κ
Immunogen	TetR(B)-tetO	TetR(B)-tetO	TetR(B)-tetO
Purification	Affinity purified via Protein G columns	Affinity purified via Protein A or G columns	Affinity purified via Protein A or G columns
Epitope	-	TetR(B): Amino acid # 84 - 98 Amino acid # 26 -53	TetR(B): Amino acid # 37 - 44
Reconstitution in	200 µl dest. H_2O	100 µl dest. H_2O	100 µl dest. H_2O
Working dilution for immunofluorescence	n.d.	n.d.	1:100 - 1:500
Working dilution for Western blots and ELISA	1:1000	1:500 - 1:2000	1:1000
Detection limit ELISA	0.2 ng	20 - 50 pg	n.d.
Detection limit Western Blot	0.8 ng	0.8 - 1.0 ng	5 ng

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Features

- Prime tool for studying tet regulatory systems in eukaryotic cells
- Suited for ELISA, Western blots and immunofluorescence
- Excellent binding properties
- Monoclonal IgG1;κ
- Polyclonal rabbit IgG
- Immunogen: TetR(B)-tetO
  (Accession no. P04483)
- Tet-Repressor positive control protein also available

Perfectly suited for detection of:

- Tet-Repressor (TetR)Tet-Repressor
- Fusion protein (TetR-Fusion)
- Tetracycline responsive transactivator (tTA)
- reverse tetracycline responsive transactivator (rtTA) including derivates like rtTA-S or rtTA-M

Examples of different application

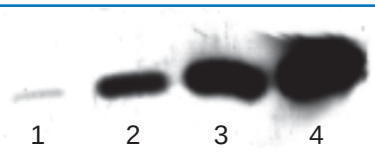

Fig.2: Western Blot of polyclonal anti-TetR, diluted 1:1000, with different amounts of Tet-Repressor. Lane 1: 0.8 ng TetR; Lane 2: 4 ng TetR; Lane 3: 20 ng TetR; Lane 4: 100 ng TetR.

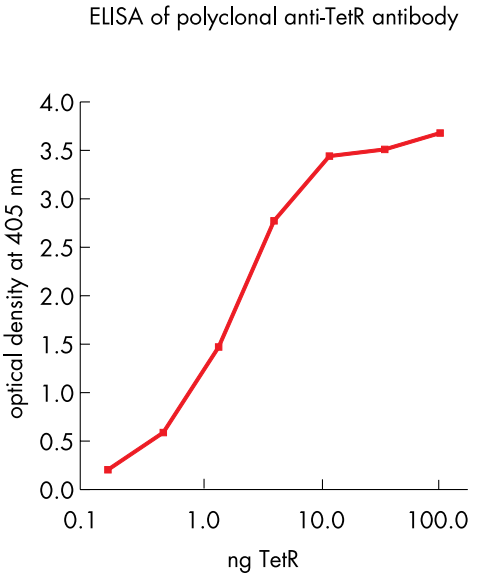

Fig.3: ELISA of polyclonal anti-TetR antibody. Wells were coated with TetR(B) overnight, blocked with 3% BSA and 0.05% Tween20 for 3 h at 37°C, incubated with anti-TetR (diluted 1:1000) for 1 h at 37°C followed by 1 h at 37°C with Protein A-alkaline-phosphatase. Substrate: 2 mg/ml para-nitrophenyl-phosphate in diethanolamine. Absorption measured at 405 nm.

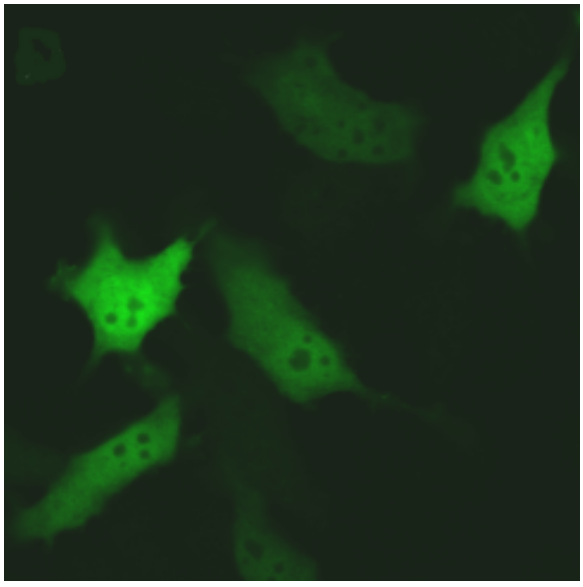

Fig.4:
HeLa cells transfected with the plasmid pUHD15-1 (TetOFF). Monoclonal anti-TetR antibodies and secondary goat anti-mouse antibodies labeled with Alexa Fluor® 488 were used to stain TetOFF repressor protein.

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Order information, shipping & storage

Order No.	Description	Amount
TET01S	Anti-Tet-Repressor, polyclonal rabbit, lyophilized, Sample Size	600 µg
TET01	Anti-Tet-Repressor, polyclonal rabbit, lyophilized	3 mg
TET02	Anti-Tet-Repressor, monoclonal mouse IgG1 mix, lyophilized	1 mg
TET03	Anti-Tet-Repressor, monoclonal mouse IgG1, lyophilized	50 µg
TETR1	Tet-Repressor protein (23 kDa) positive control	1 µg

shipped at RT; store at 4°C; *200 µl have been lyophilized

Per Ordinare il prodotto

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LISTINO PREZZI

TET01 Anti-Tet-Repressor, polyclonal rabbit, lyophilized 3mg/200 µl Euro 590,00

TET01s Anti-Tet-Repressor, polyclonal rabbit, 600 ug Euro 180,00

TET02 Anti-Tet-Repressor, monoclonal mouse IgG1 mix, lyophilized 1 mg Euro 650,00

TET03 Anti-Tet-Repressor, monoclonal mouse IgG1, lyophilized 50 µg Euro 310,00

TETR1 Tet-Repressor protein (23 kDa) positive control 1 µg Euro 180,00

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We think harder - you work less!

Tet regulatory system:

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