A-2002-2: Mouse Anti-Tetracycline Repressor Monoclonal Antibody Clone To32

Product Name:	Mouse Anti-Tetracycline Repressor Monoclonal Antibody Clone To32
Catalogue No:	A-2002-2
Immunogen:	Tetracycline repressor (TetR) in complex with *tet* operator (*tetO*) (TetR-*tetO*)
Source/Host:	Mice
Purity/Purification:	Affinity purified through a Protein A/Protein G-agarose column
Clone:	Monoclonal, Clone To32
Antibody Class:	IgG (kappa light chain)
Species reactivity: (Ref 1)	Specific to tetracycline repressor (TetR) and TetR in complex with *tetO* (TetR-*tetO*)
Form:	Liquid
Concentration:	1.0 mg/ml (in 20 mM sodium phosphate pH7.4/0.15 M NaCl/0.02% sodium azide). Protein concentration is determined by UV absorbance method.
Size:	0.2 mg or 1.0 mg
Storage:	Keep at -20^{o}C for up to 1 year and at 4^{o}C for 3 months. Avoid repeated freeze-and-thaw.
Applications:	Competitive ELISA, immunoprecipitation, and western blot. A key feature of this monoclonal antibody is its high and similar affinity to free TetR and TetR-*tetO* complex but not to TetR in complex with the Tc (TetR-Tc) (Ref 1).
Shipping:	May be shipped with ice packs or dry ice.

Brief description about the mouse anti-tetracycline repressor monoclonal antibody clone To32:

This monoclonal antibody was generated from mice immunized with recombinant wild-type tetracycline repressor (catalog #: P-1002) in complex with *tet* operator (*tetO*) (TetR-*tetO*). It has high and similar antigen-binding affinity to free TetR and TetR in complex with *tetO* (TetR-*tetO)* but not to TetR in complex with Tc (TetR-Tc*)* as demonstrated by ELISA, western blot and immunoprecipitation (Ref 1).

This antibody can be used as a detecting reagent in assays designed to quantitatively or semi-quantitatively measure Tc, such as competitive ELISA, or immunoprecipitation in association with TetR.

The optimal working dilutions for each specific application should be determined by the user empirically. We recommend start with 1:1000 for ELISA and 1:100 for western blot or immunoprecipitation.

Ref 1: Pook E., et al. Affinities of mAbs to Tet repressor complexed with operator or tetracycline suggest conformational changes associated with induction Eur. J., Biochem. 158: 915-922, 1998.

(Produced by Imgen BioSciences, Inc., May, 2012)