custom antibodies & services

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TECHNICAL DATASHEET

Monoclonal Anti-**GRA2 *Toxoplasma gondii***
Clone **TG 17.179**
Ref # BIO.018.5

Product description

Description:	Monoclonal antibody to GRA2 (dense granule protein)
Host species:	Mouse
Tested applications:	WB, IF
Immunogen:	GRA2 (28 kDa) of *Toxoplasma gondii*

Target exploration

Antibody directed against the GRA2 protein from the intracellular protozoan parasite *Toxoplasma gondii*. The protein is distributed within the dense granules secretory organelles and within the parasitophorous vacuole where it associates with the membranous nanotubular network. The protein also localizes in the cyst wall.

GeneID:	TGME49_227620, TGGT1_08030, TGVEG_068530 (ToxoDB 7.3 Released, 31 August 2012, http://www.toxodb.org/toxo/)

Properties

Form:	Liquid or lyophilized
Storage instructions:	Store at +4ºC short term (1-2 weeks). Aliquot and store at -20ºC or -80ºC. Avoid repeated freeze / thaw cycles
Storage buffer:	PBS pH 7,4 (NaCl 137mM - KCl 2,7mM - Na2HPO4 10mM - KH2PO4 2mM), preservative upon request
Isotype:	IgG1
Concentration	1mg/ml
Restrictions:	For research use only.

Applications

WB	Use at concentration of 1/8,000 – 1/15,000 (revelation by chemoluminescence)
IF	Use at concentration of 1/300 – 1/600

Optimal dilutions/concentrations should be determined by the end user

Publications

- Toxoplasma gondii: characterization and localization of antigens secreted from tachyzoites. Charif et al. (1990) Exp. Parasitol. 71 : 114-124
- Molecular characterization of a dense granule antigen (Gra 2) associated with the network of the parasitophorous vacuole in Toxoplasma gondii. Mercier et al. (1993) Mol. Biochem Parasitol. 58 : 71-82
- The amphipathic alpha helices of the Toxoplasma protein GRA2 mediate post-secretory membrane association. Mercier et al., (1998) J Cell Sci. 111:2171-80.
- Use of molecular and ultrastructural markers to evaluate stage conversion of Toxoplasma gondii in both the intermediate and definitive host. Ferguson (2004) Int J Parasitol. 34:347-360