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TECHNICAL DATASHEET

Monoclonal Anti-**GRA1** *Toxoplasma gondii*
Clone **TG 17.43**
Ref # BIO.018.4

Product description

Description:	Mouse monoclonal to GRA1 (Dense granule protein)
Host species:	Mouse
Tested applications:	WB, ELISA and IF
Immunogen:	GRA1 (27 kDa) of <i>Toxoplasma gondii</i>
Epitope:	The epitope is not conformational

Target exploration

Antibody directed against the GRA1 protein from the intracellular protozoan parasite *Toxoplasma gondii*. The protein is distributed within the dense granules secretory organelles, in the lumen of the parasitophorous vacuole and within the cyst matrix and the cyst wall. GRA1 is a calcium-binding protein.

GeneID: TGME49_270250, TGGT1_108780, TGVEG_017550
(ToxoDB 7.3 Released, 31 August 2012, <http://www.toxodb.org/toxo/>)

Properties

Form:	Purified
Storage instructions:	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer:	PBS, preservative upon request
Concentration:	1 mg/ml
Isotype:	IgG1
Restrictions:	For research use only.

Applications

Western Blot	Use at the concentration of 1/10,000 - 1/20,000 (revelation by chemoluminescence)
ELISA	Use at concentration of 1/50,000 - 1/80,000
IF	Use at concentration of 1/500 – 1/1,000

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 23-kilodalton major antigen secreted by *Toxoplasma gondii*. Cesbron-Delauw et al., (1989) *PNAS* 86: 7537-7541
- Enzyme-linked immunosorbent assays using the recombinant dense granule antigens GRA6 and GRA1 of *Toxoplasma gondii* for detection of immunoglobulin G antibodies Lecordier et al., (2000) *Clin Diagn Lab Immunol.* 7:607-611.
- 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