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TECHNICAL DATASHEET

Monoclonal Anti-**GRA5** *Toxoplasma gondii*
Clone **TG 17.113**
Ref # BIO.018.6

Product description

Description:	Monoclonal antibody to GRA5 (dense granule protein)
Host species:	Mouse
Tested applications:	WB, IF
Immunogen:	GRA5 (21 kDa) of <i>Toxoplasma gondii</i>

Target exploration

Overview: Antibody directed against the GRA5 protein from the intracellular protozoan parasite *Toxoplasma gondii*. The protein is distributed within the dense granules secretory organelles and delineates the parasitophorous vacuolar membrane. The protein also localizes in the cyst wall.

GeneID: TGME49_286450, TGGT1_037870, TGVEG_033680
(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

WB	Use at concentration of 1/18,000 – 1/35,000 (revelation by chemolumiscence)
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 structure of a *Toxoplasma gondii* dense granule antigen (GRA 5) associated with the parasitophorous vacuole membrane. Lecordier et al. (1993) *Mol. Biochem. Parasitol.* 59: 143-153
- Transmembrane insertion of the *Toxoplasma gondii* GRA5 protein occurs after soluble secretion into the host cell. Lecordier et al (1999) *Mol Biol Cell* 10: 1277-1287
- 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.