

Recombinant *T. gondii* GRA7 Antigen, His&TrxA tagged

Cat. No. GRA7-026T **Lot. No.** (See product label)

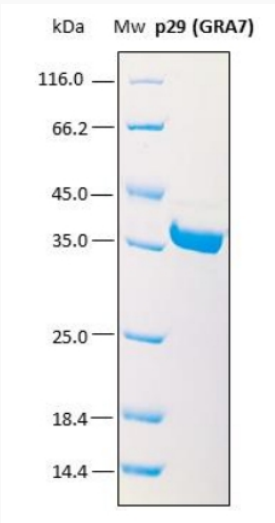
SPECIFICATION

Product Overview	The <i>T. gondii</i> antigen p29 (GRA7) has been prepared as a recombinant antigen fused to a his-tag in its N-terminal. It corresponds to the <i>T. gondii</i> GRA7 gene.
Species	<i>T.gondii</i>
Source	<i>E.coli</i>
Description	p29 (GRA7) is a protein present in the dense granules of <i>Toxoplasma gondii</i> , with a size of 29 kDa. It is a protein secreted by bradyzoites, which has a high response to IgG in human sera infected with <i>T. gondii</i> . However, it has been described in the bibliography, which has been determined for this protein by means of ELISA tests, a high sensitivity against human sera with antibodies of the IgM type, being therefore also useful for the determination of acute disease.
Tag	N-His&TrxA
Molecular Mass	Determined by SDS-PAGE, the protein band is between the molecular markers of 35 and 45 kDa, while relative molecular mass calculated from amino acid sequence is 34,118.99 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis
Applications	WB, DB, IE, DE, CLIA, LF
Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and

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	stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation.
Storage Buffer	20 mM phosphate buffer pH 8, 0.15 M NaCl and 0.1% polyoxyethylene (10) tridecyl ether
Concentration	1.19 mg/mL
Shipping	Protein is shipped with dry ice.
Reference	1. Ybañez D., Kyan, H. and Y. Nishikawa. Detection of antibodies against Toxoplasma gondii in cats using an immunochromatographic test based on GRA7 antigen. 2020. J. Vet. Med. Sci. 82(4): 441–445, 2020. 2. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. Anal Biochem. 1989 Nov 1;182(2):319-26.
Purity	 SDS-PAGE analysis (15%) of 3 µL of recombinant p29 (GRA7). Purity is approx.

95% as determined by gel electrophoresis.

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