

Recombinant Neospora caninum GRA7 Antigen, His tagged

Cat. No. GRA7-083N Lot. No. (See product label)

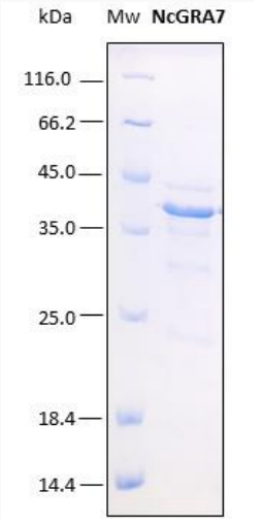
SPECIFICATION

Product Overview	GRA7 is a 29 kDa dense granule antigen which has been expressed as a recombinant antigen fused to a his-tag in its N-terminus.
Species	Neospora caninum
Source	P.pastoris
Description	GRA7 is an excretory Neospora caninum dense granule antigen and a highly immunogenic protein of the parasite. Although GRA proteins appear to be related to intracellular parasite development, previous studies revealed that NcGRA7 might be involved in the initial host cell invasion process of N. caninum. Some published studies showed high specificity and intense signal conferred by monoclonal Ab produced against NcGRA7, which render them as strong candidates for use in developing a competitive ELISA for diagnosis of N. caninum infection. This technique would be especially useful in dogs, for which current serological techniques lack the sensitivity and specificity of those used in bovines.
Tag	N-His
Molecular Mass	Determined by SDS-PAGE, the protein band is between molecular markers of 35-45 kDa, while relative molecular mass calculated from amino acid sequence is 28,337.88 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis

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Applications	WB, DB, IE, DE, CLIA, LF
Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and 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	1.21 mg/mL
Shipping	Protein is shipped with dry ice.
Reference	1. Kefayat, M., Hamidinejat, H., Seifiabadshapoori, M.R., Namavari, M.M., Shayan, P. and S. Gooraninejad. Cloning and expression of Neospora caninum dense-granule 7 in E. coli. J Parasit Dis, 2014: 38(2):196–200. 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 μ L of recombinant NcGRA7. Purity is >98% as determined by gel electrophoresis.

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