

Anti-Sheep IgE mouse monoclonal antibody

(1E7H11)

Catalog PODI-0016

Lot 26300

Product specification sheet PS-PAb0016

Product description

IgE is an immunoglobulin primarily produced from plasma cells. In normal serum it is present at very low concentrations. Western blot analysis against affinity purified ovine IgE using Mouse anti Sheep IgE clone 1E7H11 demonstrates a single major band of approximately 80 kDa or 200 kDa under reducing and non-reducing conditions, respectively. These bands correspond with the expected molecular weights of the epsilon chain and the complete ovine IgE molecule (Kooyman, *et al.*1997). IgE is important in both type 1 hypersensitivity and immunity to parasite infections, in particular parasitic worm infections. Clone 1E7H11 has been used in a number of studies involving parasite nematode infections of sheep by *Haemonchus contortus* (Vervelde, L. *et al.*1997; Kooyman, *et al.*1997). Clone 1E7H11 also recognizes bovine IgE, and as such it is useful for studies of infection in cattle by nematode worms (Bricarello *et al.*2007; Kooyman, *et al.*, 2002).

Product type:	Primary antibodies
Clone number:	1E7H11
Immunogen:	Recombinant sheep IgE1-2 expressed in E. coli
Reacts with:	sheep, bovine, goat IgE. Does not cross-react with IgM, IgA, IgG1 or IgG2
Tested applications:	ELISA, WB, IF, IHC-Fr. Optimal antibody dilution should be determined by the end user
Purity:	Protein G affinity purified, >95%
Isotype:	IgG2a
Light chain type:	Kappa
Storage buffer:	PBS
Form:	Liquid
Concentration:	1.0 mg/ml

Storage and stability

Store at 4 °C, short term (1-2 weeks). For long-term storage, aliquot and keep at or below -20° C. Avoid repeated freeze-thaw cycles

References

- Bricarello, P.A. *et al.*(2007) Field study on nematode resistance in Nelore-breed cattle. *Vet Parasitol.*148:272-8
- Vervelde, L. *et al.*(2003) Vaccination-induced protection of lambs against the parasitic nematode *Haemonchus contortus* correlates with high IgG antibody responses to the LDNF glycan antigen. *Glycobiology* 13:795-804
- Kooyman, *et al.*(2002) Serum immunoglobulin E response in calves infected with the lungworm *Dictyocaulus viviparus* and its correlation with protection. *Parasite Immunol.* 24:47-56
- Kooyman, *et al.*(1997) Production of a monoclonal antibody specific for ovine immunoglobulin E and its application to monitor serum IgE responses to *Haemonchus contortus* infection. *Parasitology* 114:395-4

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