

Ehrlichia ruminantium 32kDa protein mouse monoclonal antibody (4F10B4)

Catalog PODI-0012

Lot 12345

Product specification sheet PS-

Product description

Heartwater, caused by the intracellular bacterium *Ehrlichia ruminantium* (formerly *Cowdria ruminantium*), is an infectious rickettsial disease of domestic and wild ruminants, spread by ticks. Affected animals include cattle, sheep, goats, antelope and buffalo. The disease's name is derived from the fact that fluid collects around the heart or in the lungs of infected animals.

Product type:	Primary antibodies
Clone number:	4F10B4
Immunogen:	<i>Ehrlichia ruminantium</i> (formerly <i>Cowdria ruminantium</i>)
Reacts with:	MAP-1 protein of several <i>E. ruminantium</i> species
Tested applications:	Western blot, ELISA, EM immunogold
Purity:	Protein G affinity purified, >95%
Isotype:	IgG3
Light chain type:	Kappa
Storage buffer:	TBS (Tris buffered saline)
Form:	Liquid
Concentration:	0.5 mg/ml

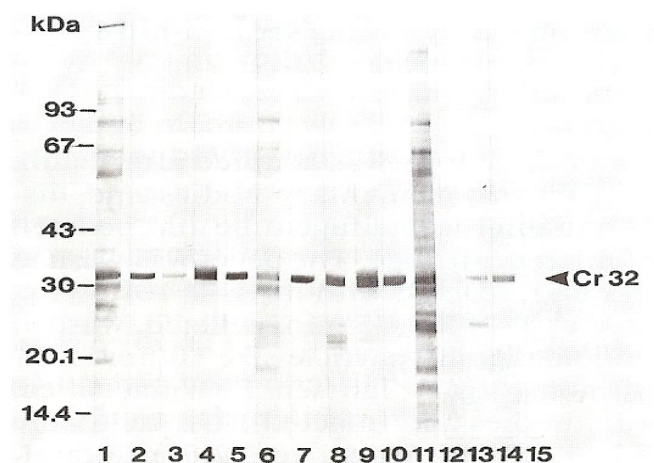
Storage and stability

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

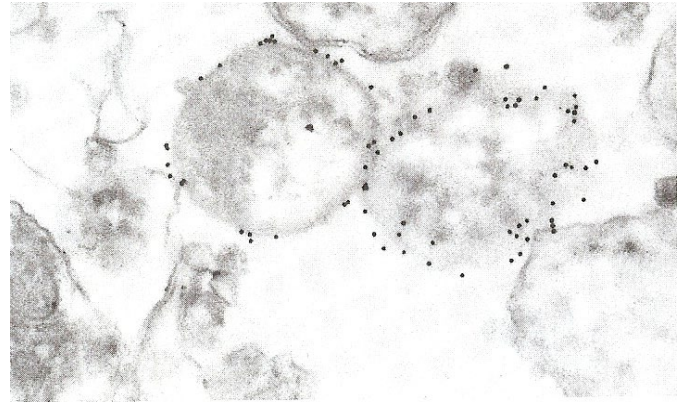
Data

Western blot of extracts of umbilical endothelial cell cultures (BU E) infected with three stocks of *C. ruminantium* probed with MAbs. Lanes 1 to 5 contain antigen of *Cowdria* (Senegal).

Lane 1; positive anti-*Cowdria* (Senegal) goat serum, Lane 2; Mab IE3H10, Lane 3; IE5H8, Lane 4; Mab 4F10B4, Lane 5; Mab 3D8H1. Lanes 6 to 10 contain antigen of the *Cowdria* strain Welgevonden. Lane 6; positive anti-*Cowdria* (Welgevonden) goat serum, Lane 7; Mab IE3H10, Lane 8; Mab IE5H8, Lane 9; Mab 4F10B4, Lane 10; Mab 3D8H1. Lanes 11 to 15 contain *Cowdria* (Um Banein stock) antigen. Lane 11; positive anti-*Cowdria* (Um Banein) goat serum, Lane 12; Mab IE3H10, Lane 13; Mab IE5H8, Lane 14; Mab 4F10B4, Lane 15; Mab 3D8H1. Molecular mass markers in kDa are indicated on the left.



Electron photomicrograph showing Cr32-specific epitope detection on the surface of elementary bodies of *Cowdria* by immunogold labeling with Mab 4F10B4



Reference

R Jongejan F, Thielemans MJ, De Groot M, van Kooten PJ, van der Zeijst BA.

Department of Tropical Veterinary Medicine and Protozoology, Faculty of Veterinary Medicine, Utrecht, Netherlands

Competitive enzyme-linked immunosorbent assay for heartwater using monoclonal antibodies to a *Cowdria ruminantium*-specific 32-kilodalton protein. *Vet Microbiology*. 1991 Jul;28(2):199-211.

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