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[Marker Primary Antibody]

Rabbit Anti-CSFV E2 protein/Biotin Conjugated antibody

Catalog Number: SL10765R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-CSFV E2 protein/Biotin
Immunogen:	Full length CSFV E2 protein Recombinded
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 ELISA=1:5000-10000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	CSFV
Background:	background: Classical swine fever(CSF) is a kind of acute and intense contagious disease in swine, it material damages swine industry. CSF could cause swine appearing disseminated hemorrhage in systemic organ and tissue, degeneration and necrosis in small vascular and capillary endothelial cells. Classical swine fever virus (CSFV) belongs to genera Pestivirus, family Flaviviridae, it's genome total length is 12.3Kb,including a big ORF, encoding 11 structural and nonstructural proteins. **Function:** E(rns), E1 and E2 are responsible of cell attachment and subsequent fusion of viral and cellular membrane. P7 forms a leader sequence to properly orient NS2 in the membrane. Uncleaved NS2-3 is required for production of infectious virus. NS2 protease seems to play a vital role in viral RNA replication control and in the pathogenicity of the virus. NS3 displays three enzymatic activities: serine protease, NTPase and RNA

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	helicase. NS4A is a cofactor for the NS3 protease activity. RNA-directed RNA polymerase NS5 replicates the viral (+) and (-) genome. **Subunit:** The E(rns) glycoprotein is found as a homodimer; disulfide-linked. The E1 and E2 envelope glycoproteins form disulfide-linked homodimers as well as heterodimers. **Subcellular Location:** Host cell surface. **Post-translational modifications:** The E(rns) glycoprotein is heavily glycosylated. The viral RNA of pestiviruses is expressed as a single polyprotein which undergoes post-translational proteolytic processing resulting in the production of at least eleven individual proteins. The N-terminal protease cleaves itself from the nascent polyprotein autocatalytically and thereby generates the N-terminus of the adjacent viral capsid protein C. Cleavage between E2 and p7 is partial. **Similarity:** Belongs to the pestivirus polyprotein family. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain. Contains 1 peptidase C53 domain. Contains 1 peptidase C74 domain. Contains 1 peptidase S31 domain. Contains 1 RdRp catalytic domain. **Database links:** **Entrez Gene:** 920146 CSFVA **SwissProt:** P19712 CSFVA Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.