

Caprine Heat Shock Protein 70.1 (HSP70.1) ELISA Kit-Sandwich

Cat. No.: EK1F161

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Caprine Heat Shock Protein 70.1 (HSP70.1) ELISA Kit-Sandwich is designed for the quantitative determination of Caprine Heat Shock Protein 70.1 (HSP70.1) in serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Caprine HSP70.1.
Target Species	Caprine
Species Reactivity	Caprine
Detection Range	3.13-200 ng/mL
Sensitivity	1.29 ng/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 10%
Assay Time	Around 210 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids.

Target Information

Hsp70, also known as DnaK, refers to a family of conserved heat shock proteins with a molecular weight of approximately 70 kilodaltons. These proteins are ubiquitously expressed and share a similar structure across a wide range of living organisms. Within cells, Hsp70s play a crucial role in protein folding, act as chaperones, and provide protection against the detrimental effects of various physiological stresses. Heat shock protein 70.1 is encoded by the goat gene *HSP70.1*. The synthesis of heat shock protein 70 (HSP70) is temperature dependent and its response is considered as a cellular thermometer in response to thermal stress. The HSP70 gene was found to be polymorphic in Indian goats.

Target/Biomarker	Caprine HSP70.1
Target Synonym	DnaK; 70 Kilodalton Heat Shock Proteins; Heat shock 70 kDa protein 1; 2; heat shock 70kDa protein 1A; HSP70; HSP70 1; HSP70 1; HSP70 2; HSP70 1A; HSP70.1; HS

Gene ID [100860849](#)

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.