

Bovine Caldesmon 1 (CALD1) ELISA Kit-Sandwich

Cat. No.: EK12F174

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Bovine Caldesmon 1 (CALD1) ELISA Kit-Sandwich is designed for the quantitative determination of Bovine Caldesmon 1 (CALD1) 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 Bovine CALD1.
Target Species	Bovine
Species Reactivity	Bovine
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 10%
Assay Time	Around 270 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids.

Target Information

Caldesmon is a calmodulin-binding protein. It tonically inhibits the ATPase activity of myosin in smooth muscle. Its conserved domain binds to several molecules, including calmodulin, actin, tropomyosin, myosin, and phospholipids. Bovine Caldesmon 1 is encoded by the *CALD1* gene in cattle. Caldesmon serves as a potent inhibitor of the actin-tropomyosin activated myosin MgATPase. It can regulate actin cytoskeleton by direct actin-binding.

Target/Biomarker	Bovine CALD1
Target Synonym	caldesmon 1; non-muscle caldesmon; CDM; L-caldesmon; caldesmon, smooth muscle
Gene ID	281660
UniProt ID	Q27976

Shipping and Storage

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

Reference

Virtanen, V. *et al.* Glucocorticoid receptor-induced non-muscle caldesmon regulates metastasis in castration-resistant prostate cancer. *Oncogenesis*. 2023, 12: 42.

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.