



Collectin 43 (2F3): sc-80626

BACKGROUND

Collectin 43 (CL-43) is a bovine C-type serum lectin and a member of the collectin family of soluble proteins that are effector molecules in innate, nonadaptive immune defense against viral, fungal and bacterial pathogens. All collectins bind to microbial surface carbohydrates, inducing aggregation and thereby impeding infectivity or mediating phagocytosis through specific receptors on the phagocytes. Collectin 43 binds to mannan in a calcium-dependent manner. This collectin appears to have evolutionarily evolved from surfactant protein D (SP-D). Collectin 43 is synthesized in bovine liver and is composed of subunits of three identical chains, each of which contains a collagen region and a C-type carbohydrate recognition domain. Two isoforms of Collectin 43 exist: the native form and the truncated form of the molecule. The variability of serum Collectin 43 may relate to disease in bovines.

REFERENCES

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RESEARCH USE

For research use only, not for use in diagnostic procedures.

SOURCE

Collectin 43 (2F3) is a mouse monoclonal antibody raised against full length native Collectin 43 of bovine origin.

PRODUCT

Each vial contains 100 µg IgG₁ in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Collectin 43 (2F3) is recommended for detection of Collectin 43 of bovine origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with Conglutinin.

Molecular Weight of Collectin 43: 43 kDa.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.