BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-CLEC7A Antibody

Catalog Number: A02731

About CLEC7A

CLEC7A, also known as dectin-1, is a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily and is predominantly expressed on myeloid cells. It is a small glycoprotein type II membrane receptor with an extracellular C-type lectin-like domain fold and a cytoplasmic domain with an immunoreceptor tyrosine-based activation motif (ITAM). CLEC7A functions as a pattern-recognition receptor that recognizes a variety of beta-1,3-linked and beta-1,6-linked glucans from fungi and plants, and in this way plays a role in innate immune response. Upon fungal exposure, CLEC7A activates Syk tyrosine kinase, triggering a massive oxidative burst through the formation of reactive oxygen species.

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Overview

Product Name	Anti-CLEC7A Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CLEC7A Antibody (Catalog # A02731). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	CLEC7A Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	CLEC7A antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9BXN2

Technical Details

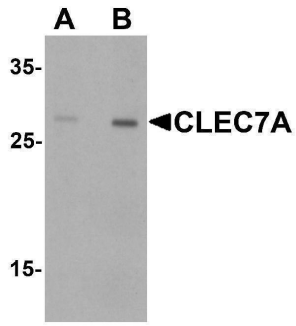
Immunogen	CLEC7A antibody was raised against a 17 amino acid synthetic peptide near the center of human CLEC7A. The immunogen is located within amino acids 70 - 120 of CLEC7A.
Predicted Reactive Species	Bovine
Cross Reactivity	Multiple isoforms of CLEC7A are known to exist.

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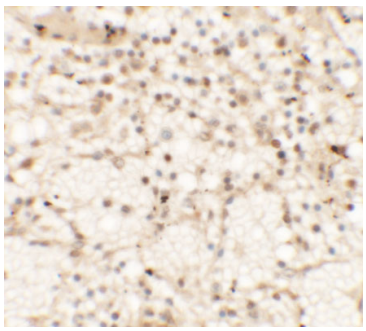
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	CLEC7A Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	CLEC7A antibody can be used for detection of CLEC7A by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in rat samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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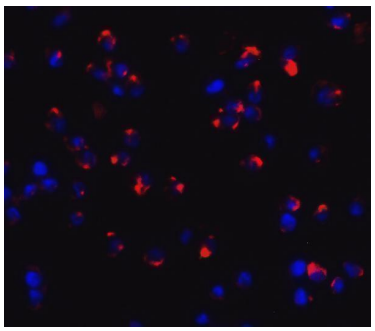
Anti-CLEC7A Antibody (A02731) Images



Western blot analysis of CLEC7A in rat spleen tissue lysate with CLEC7A antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of CLEC7A in human spleen tissue with CLEC7A antibody at 5 ug/mL.



Immunofluorescence of CLEC7A in Jurkat cells with CLEC7A antibody at 20 ug/mL.

For Research Use Only. Not for use in diagnostic procedures.