Anti-PKD (calreticulin)

Catalogue number: 158061

Sub-type: Images:

Contributor

Inventor: Abdo Alnabulsi

Institute: Vertebrate Antibodies Limited

Images:

Tool details

*FOR RESEARCH USE ONLY

Name: Anti-PKD (calreticulin)

Alternate name:

Class: Polyclonal

Conjugate: Unconjugated

Cancer Tools.org **Description:** Proliferative kidney disease (PKD), caused by the myxozoan parasite Tetracapsuloides bryosalmonae, is one of the most economically damaging diseases to trout aguaculture. T. bryosalmonae has a two-host life cycle, as other myxosporeans, cycling between freshwater bryozoan and salmonid fish species. It is characterised by a swollen kidney and spleen, bloody ascites, and pale gills, indicating the fish becomes anemic at the late stage of the disease. This parasite is allowed to cross the renal tubules wall to proliferate within the interstitial tissue of kidney, inducing a chronic lymphoid hyperplasia marked by a strong parasite-driven immunosuppressant pathogenesis and a dysregulation of T-helper subsets. Fish recovering from PKD develop protective immunity to subsequent parasite challenge, providing the impetus for vaccine development. Polyclonal antibody used to identify T. bryosalmonae antigens will be able to elicit protective immune responses for developing DNA vaccines. Calreticulin released by an intracellular parasite is capable of entering the cytoplasm, which is able to be processed via MHC class I. It is could compete with host calreticulin for the binding of MHC molecule, and thus interfere with peptide loading and presentation. This is a polyclonal antibody used for the diagnosis of T. bryosalmonae parasite. It is a valuable tool to monitor Calreticulin role in parasite development as well as immune modulation of the host.

Purpose: Parental cell: **Organism:** Tissue: Model: Gender: Isotype:

Reactivity: Tetracapsuloides bryosalmonae

Selectivity: **Host:** Rabbit

Immunogen: Ovalbumin-conjugated synthetic peptide.

Immunogen UNIPROT ID:

Sequence:

Growth properties: Production details:

Formulation:

Recommended controls: ELISA: peptide immunogen and recombinant protein WB: recombinant

Bacterial resistance: Selectable markers: Additional notes:

Target details

Target: Tetracapsuloides bryosalmonae parasite antigen (calreticulin) ools.on

Target alternate names:

Target background: Proliferative kidney disease (PKD), caused by the myxozoan parasite Tetracapsuloides bryosalmonae, is one of the most economically damaging diseases to trout aquaculture. T. bryosalmonae has a two-host life cycle, as other myxosporeans, cycling between freshwater bryozoan and salmonid fish species. It is characterised by a swollen kidney and spleen, bloody ascites, and pale gills, indicating the fish becomes anemic at the late stage of the disease. This parasite is allowed to cross the renal tubules wall to proliferate within the interstitial tissue of kidney, inducing a chronic lymphoid hyperplasia marked by a strong parasite-driven immunosuppressant pathogenesis and a dysregulation of T-helper subsets. Fish recovering from PKD develop protective immunity to subsequent parasite challenge, providing the impetus for vaccine development. Polyclonal antibody used to identify T. bryosalmonae antigens will be able to elicit protective immune responses for developing DNA vaccines. Calreticulin released by an intracellular parasite is capable of entering the cytoplasm, which is able to be processed via MHC class I. It is could compete with host calreticulin for the binding of MHC molecule, and thus interfere with peptide loading and presentation. This is a polyclonal antibody used for the diagnosis of T. bryosalmonae parasite. It is a valuable tool to monitor Calreticulin role in parasite development as well as immune modulation of the host.

Molecular weight: 41

Ic50:

Applications

Application: ELISA; WB

Application notes:

Handling

Format: Liquid **Concentration:** Passage number: **Growth medium: Temperature: Atmosphere:** Volume:

Storage medium:

Storage buffer: Unpurified anti-serum from rabbit preserved in 0.02% Thiomersal

Storage conditions:

Shipping conditions: Shipping at 4° C Cancer Tools.org

Related tools

Related tools:

References

References: