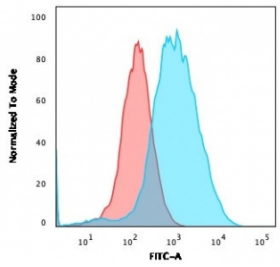
CTNG Antibody rCTNG/1664 / Plakoglobin Recombinant Antibody [clone rCTNG/1664] (V7898)

Catalog No.	Formulation	Size
V7898-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7898-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7898SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

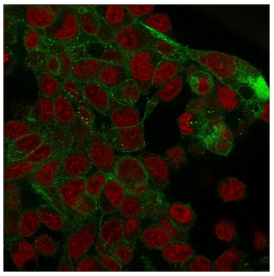
Recombinant MOUSE MONOCLONAL

Bulk quote request

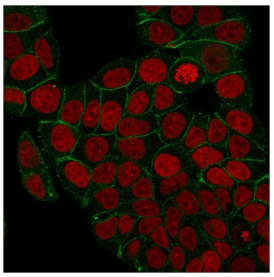
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rCTNG/1664
Purity	Protein G affinity chromatography
UniProt	P14923
Applications	ELISA (order BSA-free format for coating) Flow cytometry: 1-2ug/10^6 cells in 0.1ml Immunofluorescence: 1-2ug/ml Western blot: 1-2ug/ml
Limitations	This CTNG Antibody rCTNG/1664 / Plakoglobin Recombinant Antibody is available for research use only.



CTNG Antibody rCTNG/1664 in Human MCF7 Breast Cancer Cells FACS. Flow cytometry testing of PFA-fixed human MCF7 breast cancer cells with CTNG Antibody clone rCTNG/1664. The antibody-stained population (blue) shows a clear rightward fluorescence shift relative to the isotype control (red), with substantial separation between the two distributions. The distinct shift demonstrates detection of endogenous junction plakoglobin in fixed MCF7 cells and supports cellular recognition with the Plakoglobin Recombinant Antibody.



CTNG Antibody rCTNG/1664 in Human HepG2 Liver Cancer Cells IF. Immunofluorescence staining of PFA-fixed human HepG2 liver cancer cells with CTNG Antibody clone rCTNG/1664 (green) and RedDot nuclear stain (red). Green fluorescence prominently outlines the periphery of many cells and is enriched at contacts between adjacent cells, producing a junction-associated pattern distinct from the red nuclear staining. The localization is consistent with plakoglobin at intercellular adhesion complexes and demonstrates cellular detection with the Plakoglobin Recombinant Antibody.



CTNG Antibody rCTNG/1664 in Human MCF7 Breast Cancer Cells IF. Immunofluorescence staining of PFA-fixed human MCF7 breast cancer cells with CTNG Antibody clone rCTNG/1664 (green) and RedDot nuclear stain (red). Green fluorescence is concentrated along cell borders and is particularly apparent at interfaces between neighboring cells, while the nuclei are strongly delineated by the red counterstain. This characteristic cell-cell junction distribution is consistent with endogenous plakoglobin localization and further supports recognition with the Plakoglobin Recombinant Antibody.

Description

CTNG Antibody rCTNG/1664 / Plakoglobin Recombinant Antibody recognizes plakoglobin, an armadillo repeat protein encoded by the JUP gene. Historically referred to as CTNG or gamma catenin, plakoglobin is an important component of both desmosomes and adherens junctions. These specialized cell-cell adhesion structures contribute to tissue organization and mechanical stability by connecting neighboring cells and coordinating their association with cytoskeletal networks. Plakoglobin consequently occupies an important position in the molecular organization of intercellular junctions.

Plakoglobin contains a central series of armadillo repeats that mediate interactions with several junction-associated proteins. Within desmosomes, it binds components of the desmosomal cadherin and plaque complexes that connect intercellular adhesion structures to intermediate filaments. These interactions help distribute mechanical forces across groups of cells and are particularly important in tissues exposed to repeated physical stress. Plakoglobin can also participate in adherens junctions through interactions with classical cadherins and associated proteins.

CTNG terminology reflects the protein's historical classification as gamma catenin and remains useful when searching older literature and antibody records. The current gene symbol JUP emphasizes its identity as junction plakoglobin. Plakoglobin shares the characteristic armadillo repeat architecture of beta catenin and can interact with some related junctional components, but the two proteins have distinct distributions and biological functions. A CTNG Antibody can therefore help investigate plakoglobin-associated biology while distinguishing JUP from other members of the catenin family.

The importance of plakoglobin is especially evident in mechanically stressed epithelial and cardiac tissues. Disruption of JUP-containing junctions can impair cell-cell cohesion, and pathogenic variants in JUP are associated with inherited disorders affecting cardiac and epithelial integrity. Altered plakoglobin abundance, localization, and junctional organization have also been investigated in cancer, where changes in intercellular adhesion can accompany loss of normal epithelial architecture and changes in cellular behavior.

The names CTNG, plakoglobin, gamma catenin, and JUP therefore describe the same junction-associated protein from different historical and nomenclature perspectives. NSJ Bioreagents offers clone rCTNG/1664 as a recombinant monoclonal reagent for research involving plakoglobin expression, cell-cell adhesion, and the molecular organization of desmosomes and adherens junctions.

A CTNG Antibody such as clone rCTNG/1664 provides a defined recombinant monoclonal reagent for investigating JUP expression and junctional biology, while a Plakoglobin Recombinant Antibody provides widely recognized protein

terminology for studies of cell adhesion, desmosomes, and adherens junctions.

For a monoclonal targeting this junctional protein, see our Plakoglobin Antibody 15F11 / Gamma Catenin Monoclonal Antibody.

Application Notes

Optimal dilution of the CTNG Antibody rCTNG/1664 / Plakoglobin Recombinant Antibody should be determined by the researcher.

Immunogen

Recombinant human full length protein was used as the immunogen for the CTNG Antibody rCTNG/1664.

Storage

Store the CTNG Antibody rCTNG/1664 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Plakoglobin antibody, Gamma Catenin antibody, JUP antibody, Junction Plakoglobin antibody, Junctional Plakoglobin antibody, Desmoplakin III antibody

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