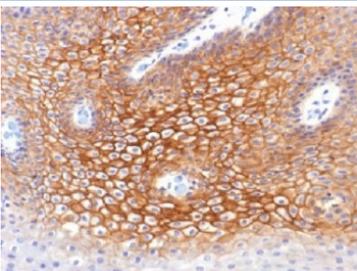


## Plakoglobin Antibody / Gamma Catenin [clone CTNG/1483] (V3235)

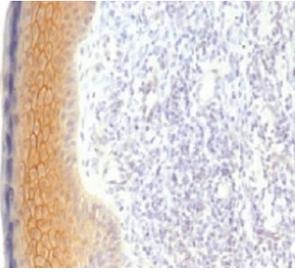
Catalog No.	Formulation	Size
V3235-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3235-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3235SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

### Bulk quote request

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	CTNG/1483
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P14923
<b>Localization</b>	Cell surface, cytoplasmic, cell junctions
<b>Applications</b>	Immunohistochemistry (FFPE) : 0.1-0.2ug/ml for 30 min at RT
<b>Limitations</b>	This Plakoglobin antibody is available for research use only.



IHC testing of FFPE human cervical carcinoma with Plakoglobin antibody (clone CTNG/1483). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min.



IHC testing of FFPE human skin with Plakoglobin antibody (clone CTNG/1483).  
Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min.

## Description

Plakoglobin, also known as junction plakoglobin or gamma-catenin, is a protein that in humans is encoded by the JUP gene. It is a member of the catenin protein family and homologous to  $\beta$ -catenin. It is a cytoplasmic component of desmosomes and adherens junctions structures located within intercalated discs of cardiac muscle that function to anchor sarcomeres and join adjacent cells in cardiac muscle. Mutations in Plakoglobin are associated with arrhythmogenic right ventricular dysplasia and Pemphigus vulgaris.

Plakoglobin is a major cytoplasmic component of both desmosomes and adherens junctions, and is the only known constituent common to submembranous plaques in both of these structures, which are located at the intercalated disc (ICD) of cardiomyocytes. It links cadherins to the actin cytoskeleton. Plakoglobin binds to conserved regions of desmoglein and desmocollin at intracellular catenin-binding sites to assemble desmosomes. [Wiki]

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Plakoglobin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Recombinant human protein was used as the immunogen for the Plakoglobin antibody.

## Storage

Store the Plakoglobin antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).