

## Product datasheet for **AP33204SU-N**

### gamma Catenin (JUP) (N-term, 5-21) Guinea Pig Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Immunoblotting (Western blot):</b> 1/2000. <b>Immunohistochemistry on Frozen Sections:</b> 1/100. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50 (after microwave treatment). <b>Cytological Material.</b> <b>Incubation Time:</b> 1 h at RT extended with paraffin sections.
Reactivity:	Human, Mouse
Host:	Guinea Pig
Clonality:	Polyclonal
Immunogen:	Synthetic N-terminus of Human Plakoglobin (aa 5-21), identical to gamma-Catenin
Specificity:	Specific detection of Mr 83 000 Plakoglobin, "band 5" polypeptide of intercellular adhering junctions (also described as Gamma-Catenin). Excellent marker for all forms of intercellular adhering junctions, such as: desmosomes of epithelial and myocardial cells (incl. cultured cells); zonulae and fasciae adherentes of epithelia, endothelia of blood vessels and myocardial cells; adherens-type junctions (e.g. lens tissue, pigmented retinal cells, Sertoli cells of testis). Especially useful for studying plakoglobin mutations in cardiomyopathies (e.g. ARVC, see References below).
Formulation:	State: Serum State: Liquid prediluted stabilized antiserum with 0.09% Sodium Azide and 0.5% BSA
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	junction plakoglobin
Database Link:	<a href="#">Entrez Gene 3728 Human P14923</a>



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**Background:**

Gamma Catenin is a common junctional plaque protein. The membrane-associated plaques are architectural elements in an important strategic position to influence the arrangement and function of both the cytoskeleton and the cells within the tissue. The presence of gamma Catenin in both the desmosomes and in the intermediate junctions suggests that it plays a central role in the structure and function of submembranous plaques. It is a member of the catenin family since it contains a distinct repeating amino acid motif called the armadillo repeat.

**Synonyms:**

Desmoplakin-3, Desmoplakin III, Catenin gamma, JUP, CTNNG, DP3