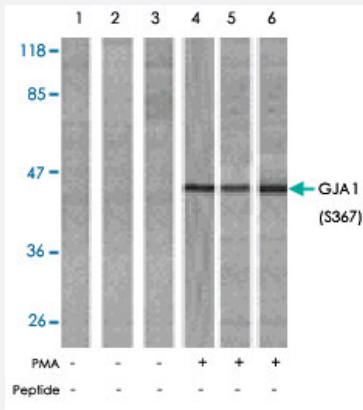


GJA1 (phospho S367) polyclonal antibody

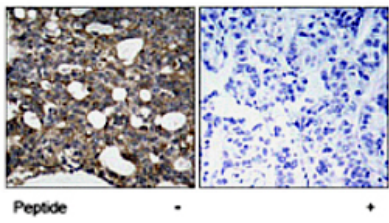
Catalog # PAB5681 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extract from HeLa (Lane 1, 4), K-562 (Lane 2, 5) and 293 (Lane 3, 6) cells, untreated or treated with PMA (1 uM, 30 min). Using GJA1 (phospho S367) polyclonal antibody (Cat # PAB5681).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using GJA1 (phospho S367) polyclonal antibody (Cat # PAB5681).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of GJA1.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S367 of human GJA1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extract from HeLa (Lane 1, 4), K-562 (Lane 2, 5) and 293 (Lane 3, 6) cells, untreated or treated with PMA (1 μ M, 30 min). Using GJA1 (phospho S367) polyclonal antibody (Cat # PAB5681).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using GJA1 (phospho S367) polyclonal antibody (Cat # PAB5681).

Gene Info — GJA1

Entrez GeneID	2697
Gene Name	GJA1
Gene Alias	CX43, DFN38, GJAL, ODDD
Gene Description	gap junction protein, alpha 1, 43kDa
Omim ID	121014 164200 186100 241550 600309
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the connexin gene family. The encoded protein is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular weight materials from cell to cell. The encoded protein is the major protein of gap junctions in the heart that are thought to have a crucial role in the synchronized contraction of the heart and in embryonic development. A related intronless pseudogene has been mapped to chromosome 5. Mutations in this gene have been associated with oculodentodigital dysplasia and heart malformations. [provided by RefSeq]
Other Designations	OTTHUMP00000017111 connexin 43 gap junction 43 kDa heart protein gap junction protein, alpha-like

Publication Reference

- [Alterations of phosphorylation state of connexin 43 during hypoxia and reoxygenation are associated with cardiac function.](#)

Matsushita S, Kurihara H, Watanabe M, Okada T, Sakai T, Amano A.

The Journal of Histochemistry and Cytochemistry : Official Journal of the Histochemistry Society 2005 Nov; 54(3):343.

- [Mechanism of regulation of the gap junction protein connexin 43 by protein kinase C-mediated phosphorylation.](#)

Bao X, Altenberg GA, Reuss L.

American Journal of Physiology. Cell Physiology 2004 Mar; 286(3):C647.

- [Connexin43 phosphorylation at S368 is acute during S and G2/M and in response to protein kinase C activation.](#)

Solan JL, Fry MD, TenBroek EM, Lampe PD.

Journal of Cell Science 2003 Apr; 116(Pt 11):2203.

Pathway

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Gap junction](#)

Disease

- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hearing Loss](#)

- [Heart Defects](#)
- [Hypoplastic Left Heart Syndrome](#)
- [Presbycusis](#)
- [Schizophrenia](#)
- [Seizures](#)