



Connexin 43 (phospho Ser368) Polyclonal Antibody

Catalog No	YP-Ab-16879
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	GJA1
Immunogen	The antiserum was produced against synthesized peptide derived from human Connexin 43 around the phosphorylation site of Ser367. AA range:332-381
Specificity	Phospho-Connexin 43 (S368) Polyclonal Antibody detects endogenous levels of Connexin 43 protein only when phosphorylated at S368.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	GJA1;Connexin-43;GJAL;Gap junction alpha-1 protein;Gap junction alpha 1 protein;Connexin 43;Cx43;Gap junction 43 kDa heart protein
Observed Band	43kD
Calculated Molecular Weight	43kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Cell junction, gap junction . Endoplasmic reticulum . Localizes at the intercalated disk (ICD) in cardiomyocytes and the proper localization at ICD is dependent on TMEM65. .
Tissue Specificity	Expressed in the heart and fetal cochlea.
Function	caution:PubMed:11741837 reported 2 mutations (Phe-11 and Ala-24) linked to non-syndromic autosomal recessive deafness (DFNBG). These mutations have subsequently been shown (PubMed:12457340) to involve the pseudogene of connexin-43 located on chromosome 5.,caution:PubMed:7715640 reported a mutation Pro-364 linked to congenital heart diseases. This was later shown (PubMed:8873667) to be an artifact.,disease:Defects in GJA1 are a cause of hypoplastic left heart syndrome (HLHS) [MIM:241550]. HLHS refers to the abnormal development of the left-sided cardiac structures, resulting in obstruction to blood flow from the left ventricular outflow tract. In addition, the



syndrome includes underdevelopment of the left ventricle, aorta, and aortic arch, as well as mitral atresia or stenosis.,disease:Defects in GJA1 are the cause of autosomal dominant oculodentodigital dysplasia (ODDD) [MIM:164200]; al

Background

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, autosomal recessive craniometaphyseal dysplasia and heart malformations. [provided by RefSeq, May 2014],

matters needing attention

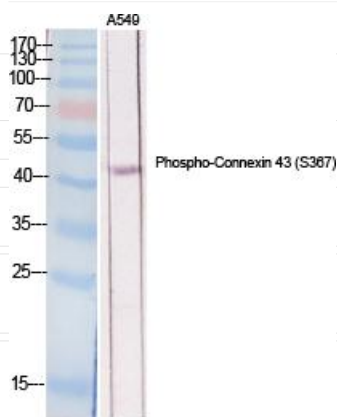
Avoid repeated freezing and thawing!

Usage suggestions

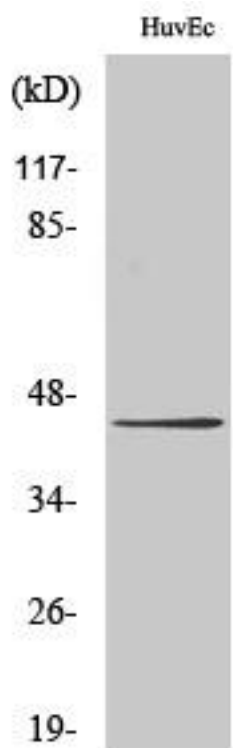
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



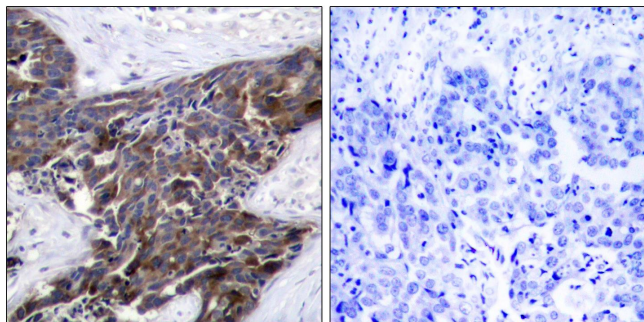
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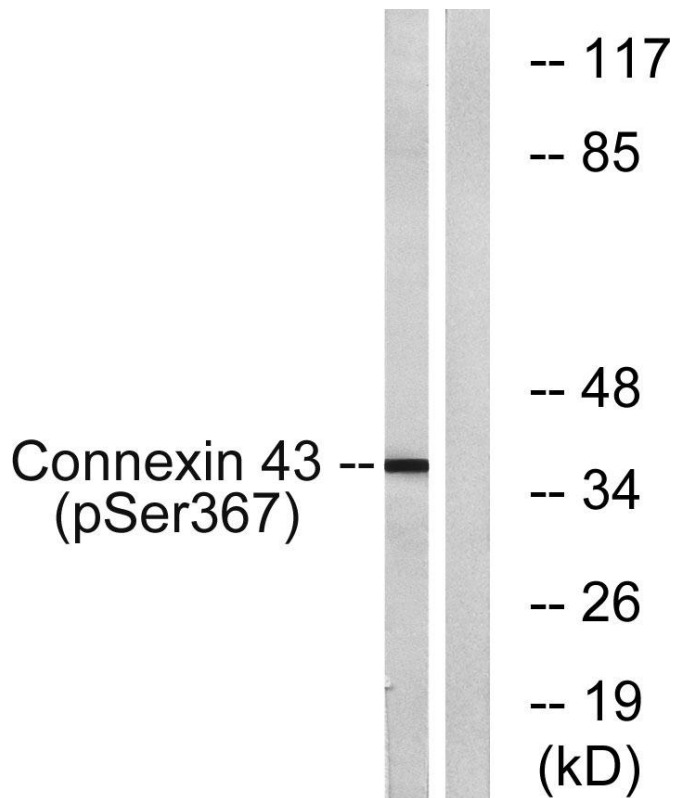
Western Blot analysis of various cells using
Phospho-Connexin 43 (S368) Polyclonal Antibody
diluted at 1:2000



Western Blot analysis of HuvEc cells using
Phospho-Connexin 43 (S368) Polyclonal Antibody
diluted at 1:2000



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Connexin 43 (Phospho-Ser367) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from K562 cells treated with PMA 200ng/ml 10', using Connexin 43 (Phospho-Ser367) Antibody. The lane on the right is blocked with the phospho peptide.