abcam

Product datasheet

Anti-Connexin 43 / GJA1 antibody - Intercellular Junction Marker ab63851

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製品の概要

製品名	Anti-Connexin 43 / GJA1 antibody - Intercellular Junction Marker
製品の詳細	Rabbit polyclonal to Connexin 43 / GJA1 - Intercellular Junction Marker
由来種	Rabbit
アプリケーション	**適用あり:** WB, ICC/IF
種交差性	**交差種:** Human, Nile tilapia **交差が予測される動物種:** Mouse, Rat, Rabbit, Chicken, Cow, Pig, Xenopus laevis, Non human primates, Zebrafish
免疫原	Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human Connexin 43/ GJA1.Immunogen の所有権に関して(Peptide available as ab92658.)
ポジティブ・コントロール	This antibody gave a positive signal in HeLa and MCF7 Whole Cell Lysates.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our Abpromise guarantee covers the use of **ab63851** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB	★★★★☆	Use at an assay dependent dilution. Detects a band of approximately 40 kDa (predicted molecular weight: 43 kDa).
ICC/IF	★★★★☆	Use a concentration of 5 µg/ml.

ターゲット情報

機能

One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell. May play a critical role in the physiology of hearing by participating in the recycling of potassium to the cochlear endolymph.

組織特異性

Expressed in the heart and fetal cochlea.

関連疾患

Defects in GJA1 are the cause of autosomal dominant oculodentodigital dysplasia (ODDD) [MIM:164200]; also known as oculodentoosseous dysplasia. ODDD is a highly penetrant syndrome presenting with craniofacial (ocular, nasal, dental) and limb dysmorphisms, spastic paraplegia, and neurodegeneration. Craniofacial anomalies tipically include a thin nose with hypoplastic alae nasi, small anteverted nares, prominent columnella, and microcephaly. Brittle nails and hair abnormalities of hypotrichosis and slow growth are present. Ocular defects include microphthalmia, microcornea, cataracts, glaucoma, and optic atrophy. Syndactyly type 3 and conductive deafness can occur in some cases. Cardiac abnormalities are observed in rare instances.
Defects in GJA1 are the cause of autosomal recessive oculodentodigital dysplasia (ODDD autosomal recessive) [MIM:257850].
Defects in GJA1 may be the cause of syndactyly type 3 (SDTY3) [MIM:186100]. Syndactyly is an autosomal dominant trait and is the most common congenital anomaly of the hand or foot. It is marked by persistence of the webbing between adjacent digits, so they are more or less completely attached. In this type there is usually complete and bilateral syndactyly between the fourth and fifth fingers. Usually it is soft tissue syndactyly but occasionally the distal phalanges are fused. The fifth finger is short with absent or rudimentary middle phalanx. The feet are not affected.
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.
Defects in GJA1 are a cause of Hallermann-Streiff syndrome (HSS) [MIM:234100]. HSS is a disorder characterized by a typical skull shape (brachycephaly with frontal bossing), hypotrichosis, microphthalmia, cataracts, beaked nose, micrognathia, skin atrophy, dental anomalies and proportionate short stature. Mental retardation is present in a minority of cases.

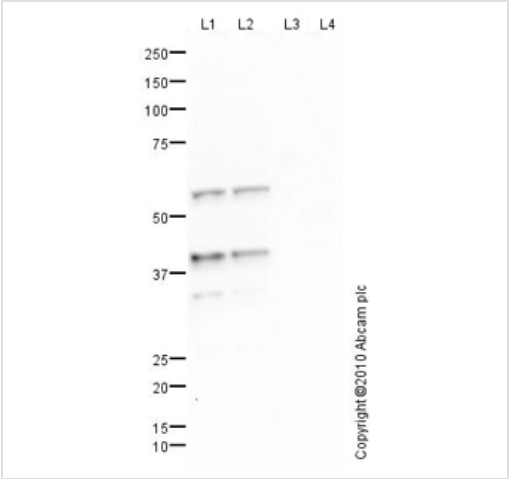
配列類似性

Belongs to the connexin family. Alpha-type (group II) subfamily.

細胞内局在

Cell membrane. Cell junction > gap junction.

画像



Western blot - Anti-Connexin 43 / GJA1 antibody - Intercellular Junction Marker (ab63851)

All lanes : Anti-Connexin 43 / GJA1 antibody - Intercellular Junction Marker (ab63851) at 1 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 2 : MCF7 (Human breast adenocarcinoma cell line) Whole Cell Lysate
Lane 3 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate with Immunising peptide at 1 µg/ml
Lane 4 : MCF7 (Human breast adenocarcinoma cell line) Whole Cell Lysate with Immunising peptide at 1 µg/ml

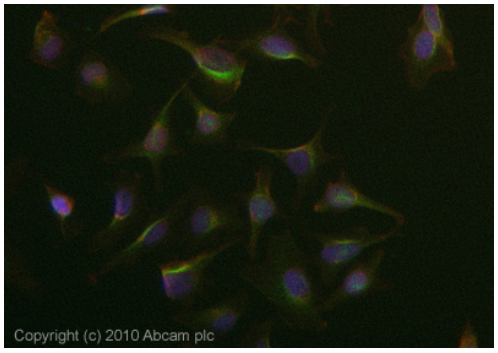
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 43 kDa
Observed band size: 40 kDa
Additional bands at: 30 kDa, 55 kDa. We are unsure as to the identity of these extra bands.



Immunocytochemistry/ Immunofluorescence - Anti-Connexin 43 / GJA1 antibody - Intercellular Junction Marker (ab63851)

ICC/IF image of ab63851 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal Goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab63851, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 Goat anti-Rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in 4% PFA fixed (10 min) Hek293, and HepG2 cells at 5µg/ml.

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