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Anti-Connexin 46 Antibody

Catalog # AP60295

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q9Y6H8
Reactivity	Human, Mouse, Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47410

Additional Information

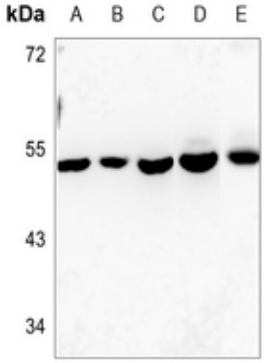
Gene ID	2700
Other Names	Gap junction alpha-3 protein; Connexin-46; Cx46
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Connexin 46. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

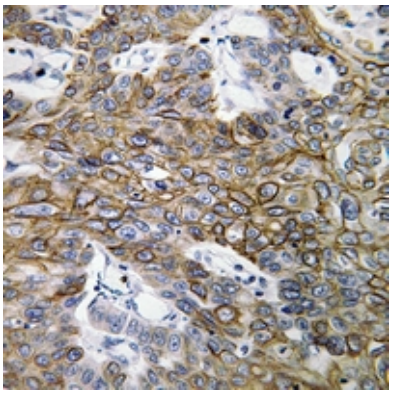
Name	GJA3
Function	Structural component of lens fiber gap junctions (PubMed: 30044662). Gap junctions are dodecameric channels that connect the cytoplasm of adjoining cells (By similarity). They are formed by the docking of two hexameric hemichannels, one from each cell membrane. Small molecules and ions diffuse from one cell to a neighboring cell via the central pore (PubMed:30044662).
Cellular Location	Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9TU17}. Cell junction, gap junction

Images

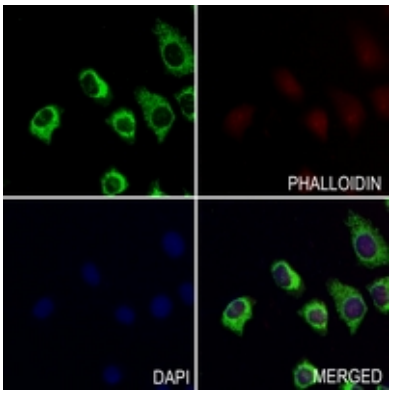
Western blot analysis of Connexin 46 expression in A549



(A), U2OS (B), DLD (C), mouse heart (D), rat heart (E) whole cell lysates. (Predicted band size: 47 kD; Observed band size: 53 kD)



Immunohistochemical analysis of Connexin 46 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Connexin 46 staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).