

Anti-GJA1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken,Dog,Cow)
Molecular Weight:	Theoretical: 42 kDa. Actual: 45 kDa.
Purification:	Protein A purified

Applications

1. Paraformaldehyde-fixed, paraffin embedded (Human stomach cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Connexin 43) Polyclonal Antibody, Unconjugated (TMAB-00772) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

2. Sample: MCF-7 Cell Lysate at 40 µg

Primary: Anti-Connexin (TMAB-00772) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/10000 dilution

Predicted band size: 42 kDa

Observed band size: 43 kDa

3. Tissue/cell: MCF7 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (Connexin 43) polyclonal Antibody, Unconjugated (TMAB-00772) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.

4. Tissue/cell: U-251 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (Connexin 43) polyclonal Antibody, Unconjugated (TMAB-00772) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.

5. Sample:

Lane 1: Heart (Mouse) Lysate at 40 µg

Lane 2: Heart (Rat) Lysate at 40 µg

Lane 3: Cerebrum (Mouse) Lysate at 40 µg

Lane 4: Cerebrum (Rat) Lysate at 40 µg

Primary: Anti-Connexin 43 (TMAB-00772) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 42 kDa

Observed band size: 45 kDa

6. Blank control (blue line): HeLa (blue).

Primary Antibody (green line): Rabbit Anti-Connexin 43 antibody (TMAB-00772)

Dilution: 1 µg/10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody (white blue line): f(ab')₂ fragment goat anti-rabbit IgG-FITC.

Dilution: 1 µg/test.

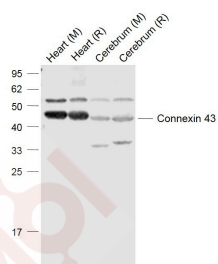
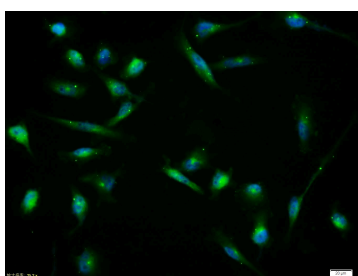
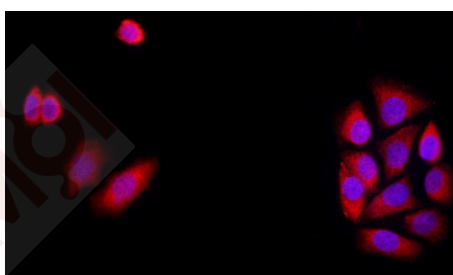
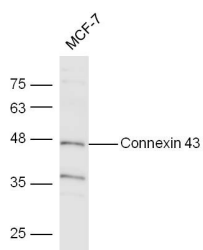
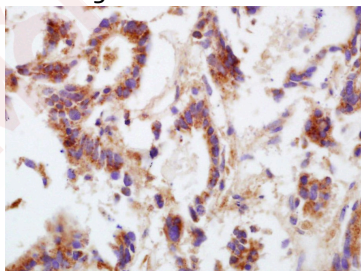
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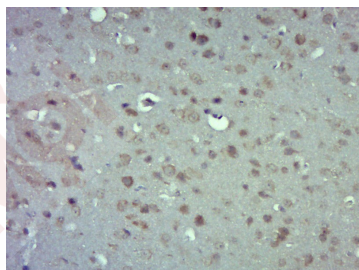
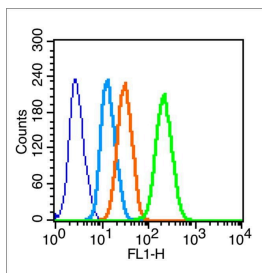
The cells were fixed with 2% paraformaldehyde (10 min), then permeabilized with 90% ice-cold

Verified Activity:

methanol for 30 min on ice. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2% BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature.

7. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Connexin 43) Polyclonal Antibody, Unconjugated (TMAB-00772) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.





Application: FCM,ICC/IF,IF,IHC-Fr,IHC-P,WB

Recommended FCM=1 µg/Test; ICC/IF=1:100-500; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:500-2000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human Connexin-43

Antigen Species: Human

Gene ID: 2697

Uniprot ID: P17302

Synonyms: GJAL;GJA1;Connexin-43 (Cx43);Gap junction 43 kDa heart protein;Gap junction alpha-1 protein

Biology Area: Cell junction molecules,Cardiac arrhythmias,Gap Junctions

Research 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 and heart malformations. [provided by RefSeq].

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