Data Sheet (Cat.No.TMAB-06492)

Anti-GJA8 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Rat,Chicken,Dog,Cow,Rabbit,Sheep)
Molecular Weight:	Theoretical: 48 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Tissue/cell: Mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37℃ for 20 min; Incubation: Anti-GJA8 Polyclonal Antibody, Unconjugated (TMAB-06492) 1:500, overnight at 4° C, followed by conjugation to the secondary antibody and DAB staining 2. Tissue/cell: Mouse placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37℃ for 20 min; Incubation: Anti-GJA8 Polyclonal Antibody, Unconjugated (TMAB-06492) 1:500, overnight at 4° C, followed by conjugation to the secondary antibody and DAB staining
Application:	IHC-P,IHC-Fr,IF
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2℃-8℃ for 1 month. Store at -20℃ or -80℃ for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human GJA8/Connexin 50
Antigen Species:	Human
Gene ID:	2703
Uniprot ID:	P48165

Research Background

The connexin family of proteins form hexameric complexes called “connexons” that facilitate movement of low molecular weight proteins between cells via gap junctions (1). Connexin proteins share a common topology of 4 transmembrane alpha-helical domains, two extracellular loops, a cytoplasmic loop, and cytoplasmic N- and C-termini (2). Many of the key functional differences arise from specific amino-acid substitutions in the most highly conserved domains, the transmembrane and extracellular regions (2). Each of the approximately 20 connexin isoforms produces channels with distinct permeabilities and electrical and chemical sensitivities; therefore, one connexin usually cannot fully substitute for another (2). Consequently, a wide variety of malignant phenotypes

associate with decreased connexin expression and gap junction communication, dependent on the particular connexin that is effected (3, 2). For instance, deletion of the gene encoding connexin 50, normally expressed in the lens, produces cataracts, though not as severe as with deletion of connexin 46 (4).

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481