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DATA SHEET

Rabbit Anti-GJB2/Connexin 26 Polyclonal: RC0036, RC0036RTU7

Intended Use: For Research Use Only

Description: GJBs (gap-junction proteins or connexins) share a common topology of 4 transmembrane alpha-helical domains, two extracellular loops, a cytoplasmic loop, and cytoplasmic N- and C-termini. Many of the key functional differences arise from specific amino-acid substitutions in the most highly conserved domains, the transmembrane and extracellular regions. Defects in GJB2 are the cause of deafness autosomal recessive type 1A (DFNB1A) which is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information. Defects in GJB2 are a cause of Vohwinkel syndrome (VS) which is an autosomal dominant disease characterized by hyperkeratosis, constriction on finger and toes and congenital deafness.

Specifications:

Clone:	Polyclonal
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human, mouse, rat
Immunogen:	Synthesized peptide derived from human GJB2
Localization:	Membrane
Formulation:	Purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, WB

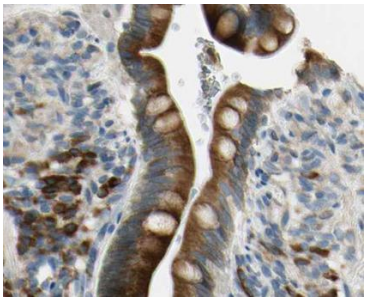
Package:

Description	Catalog No.	Size
GJB2/Connexin 26 Polyclonal Concentrated	RC0036	1 ml
GJB2/Connexin 26 Polyclonal Prediluted	RC0036RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Colon, liver, intestine
Concentrated Dilution:	10-100
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	Overnight at 4°C
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE mouse intestine stained with anti-GJB2 using DAB

References:

1. The Roles of Connexin 26, 32, and 43 as Prognostic Factors for Gastric Cancer. Kim EY, et al. Anticancer Res 40:4537-4545, 2020.
2. Connexin-43 channels are a pathway for discharging lactate from glycolytic pancreatic ductal adenocarcinoma cells. Dovmark TH, et al. Oncogene 36:4538-4550, 2017.
3. Stromal uptake and transmission of acid is a pathway for venting cancer cell-generated acid. Hulikova A, et al. Proc Natl Acad Sci U S A 113:E5344-53, 2016.

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