

## Basic Information

Product Name	Anti-Connexin-46/GJA3 Antibody
Gene Name	GJA3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human GJA3 different from the related mouse and rat sequences by four amino acids.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	47 kDa
Dilution Ratios	Western blot (WB):1:500-2000

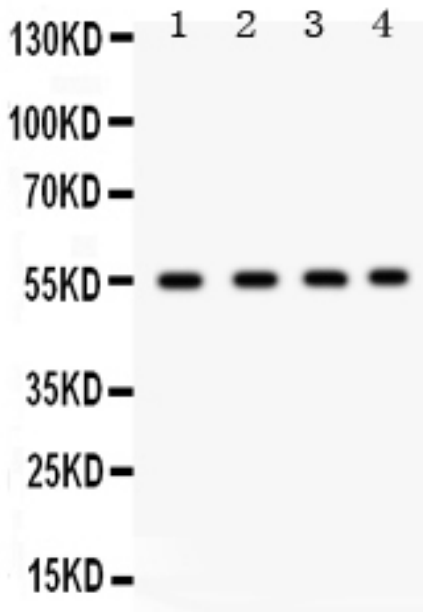
## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

Gap junction alpha-3 protein, also known as Connexin-46, is a protein that in humans is encoded by the GJA3 gene. This gene is mapped to 13q12.11. The protein encoded by this gene is a connexin and is a component of lens fiber gap junctions. 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. Defects in this gene are a cause of zonular pulverulent cataract type 3 (CZP3).

## Selected Validation Data



Western blot analysis of Connexin-46/GJA3 using anti-Connexin-46/GJA3 antibody (PB0629). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Rat Cardiac Muscle tissue lysates,

Lane 2: Rat Kidney tissue lysates,

Lane 3: Human Placenta tissue lysates,

Lane 4: NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Connexin-46/GJA3 antigen affinity purified polyclonal antibody (PB0629) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Connexin-46/GJA3 at approximately 47 kDa. The expected band size for Connexin-46/GJA3 is at 47 kDa.