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# Anti-Connexin 32 (Gap Junction Protein) Antibody

Mouse Monoclonal Antibody
Catalog # AH13265

## Product Information

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| **Application** | WB, IHC-F, IF, FC |
| **Primary Accession** | P08034 |
| **Other Accession** | 333303 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse / IgG |
| **Clone Names** | M12.13 |
| **Calculated MW** | 32025 |

## Additional Information

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| **Gene ID** | 2705 |
| **Other Names** | Charcot Marie Tooth neuropathy X linked; CMTX; CMTX1; Connexin-32; Cx32; GAP junction 28kDa liver protein; Gap junction beta-1 protein; Gap junction protein beta 1 32kD; GJB1 |
| **Application Note** | Immunofluorescence (1-2ug/ml); Flow Cytometry (0.5-1ug/million cells);,Western Blotting (0.5-1ug/ml); ,Immunohistology (Frozen) (0.5-1.0ug/ml for 30 minutes at RT),Optimal dilution for a specific application should be determined. |
| **Format** | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| **Storage** | Store at 2 to 8°C.Antibody is stable for 24 months. |
| **Precautions** | Anti-Connexin 32 (Gap Junction Protein) Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | GJB1 |
| **Synonyms** | CX32 |
| **Function** | 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. |

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| **Cellular Location** | Cell membrane; Multi-pass membrane protein. Cell junction, gap junction |

## Background

This Ab recognizes a protein of 27-32kDa, identified as Connexin 32. The connexin family of proteins forms hexameric complexes called connexons that facilitate movement of low molecular weight proteins between cells via gap junctions. Connexin proteins share a common topology of four transmembrane α-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. Each of the approximately 20-connexin isoforms produces channels with distinct permeability and electrical and chemical sensitivities; therefore, one connexin usually cannot fully substitute for another.