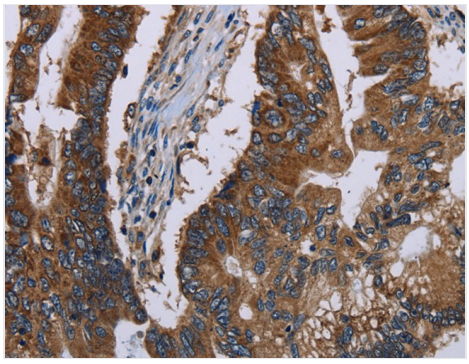
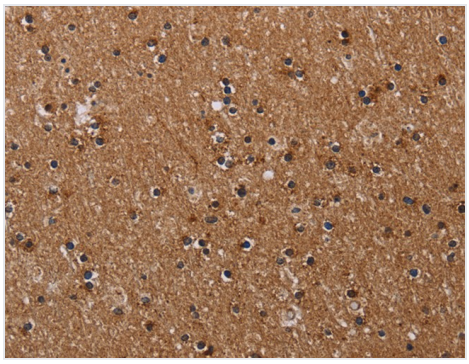
# CLDND1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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|---|---|
| **Product Name** | CLDND1, Polyclonal Antibody |
| **Full Product Name** | CLDND1 Polyclonal Antibody |
| **Product Gene Name** | anti-CLDND1 antibody |
| **Product Synonym Names** | C3orf4; GENX-3745 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Purity/Purification** | Antigen affinity purification |
| **Concentration** | 1.8mg/mL (lot specific) |
| **Preparation and Storage** | Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles. |
| **Molecular Weight** | 17,464 Da |
| **Immunogen** | Recombinant protein of human CLDND1 |
| **Buffer** | PBS with 0.05% sodium azide, 50% glycerol, pH7.3 |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-CLDND1 antibody** | ELISA (EIA), Immunohistochemistry (IHC) |
| **Application Notes for anti-CLDND1 antibody** | IHC: 1:50-1:200 |
| **Related Product Information for anti-CLDND1 antibody** | CLDND1 (claudin domain containing 1), also known as C3orf4 or HSPC174, is a 253 amino acid multi-pass membrane protein that is expressed at high levels in adult brain and at lower levels in adult heart. Existing as two alternatively spliced isoforms, CLDND1 is encoded by a gene that maps to human chromosome 3, which houses over 1, 100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Key tumor suppressing genes on chromosome 3 include those that encode the apoptosis mediator RASSF1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth Disease are a few of the numerous genetic diseases associated with chromosome 3. |
| **Other Notes** | Small volumes of anti-CLDND1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for CLDND1 purchase** | MBS2522145 is an antibody targeting CLDND1. Also known as CLDND1 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |



**Immunohistochemistry (IHC) of anti-CLDND1 antibody**
Immunohistochemistry of paraffin-embedded Human colon cancer tissue using CLDND1 Polyclonal Antibody at dilution 1:40



**Immunohistochemistry (IHC) of anti-CLDND1 antibody**
Immunohistochemistry of paraffin-embedded Human brain tissue using CLDND1 Polyclonal Antibody at dilution 1:40

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLDND1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 20532022 |
| **NCBI GeneID** | 56650 |
| **NCBI Accession #** | Q9NY35.1 |
| **UniProt Secondary Accession #** | Q502Y8; Q6UVX2; Q9BUZ9; Q9NZZ5; Q9Y4S9; B3KQR1; D3DN36; F2Z2D9 |
| **UniProt Related Accession #** | Q9NY35 |
| **NCBI Official Full Name** | Claudin domain-containing protein 1 |
| **NCBI Official Synonym Full Names** | claudin domain containing 1 |
| **NCBI Official Symbol** | CLDND1 |
| **NCBI Official Synonym Symbols** | C3orf4; GENX-3745 |
| **UniProt Protein Name** | Claudin domain-containing protein 1 |
| **UniProt Synonym Protein Names** | Membrane protein GENX-3745 |
| **Protein Family** | Claudin domain-containing protein |
| **UniProt Gene Name** | CLDND1 |
| **UniProt Synonym Gene Names** | C3orf4 |
| **UniProt Entry Name** | CLDN1_HUMAN |
| **NCBI Protein Information** | claudin domain-containing protein 1; claudin domain containing 1 protein; membrane protein GENX-3745 |
| **UniProt Comments for CLDND1** | CLDND1: Belongs to the PMP-22/EMP/MP20 family. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Membrane protein, multi-pass; Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 3q12.1<br><br>Cellular Component: cell surface; apical plasma membrane; integral to membrane |
| **Research Articles on CLDND1** | **1.** A cDNA library consisting of 220 upregulated genes in tumour tissue was established and named as LSCC. Differential expression was confirmed in five of these genes, including IGFBP5, SQLE, RAP2B, CLDN1, and TBL1XR1. |

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