# COL4A5 Monoclonal Antibody

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| **Catalog No** | BYmab-16987 |
| **Isotype** | IgG |
| **Reactivity** | Human;Mouse |
| **Applications** | WB |
| **Gene Name** | COL4A5 |
| **Protein Name** | Collagen alpha-5(IV) chain |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human Collagen IV alpha5. AA range:21-70 |
| **Specificity** | COL4A5 Monoclonal Antibody detects endogenous levels of COL4A5 protein. |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source** | Monoclonal, Mouse,IgG |
| **Purification** | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Dilution** | WB 1:500-2000 |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | COL4A5; Collagen alpha-5(IV) chain |
| **Observed Band** | 160kD |
| **Cell Pathway** | Secreted, extracellular space, extracellular matrix, basement membrane. |
| **Tissue Specificity** | Isoform 2 is found in kidney. |
| **Function** | disease:Defects in COL4A5 are the cause of Alport syndrome X-linked (APSX) [MIM:301050]. APSX is characterized by progressive glomerulonephritis, renal failure, sensorineural deafness, specific eye abnormalities (lenticonous and macular flecks), and glomerular basement membrane defects. The disorder shows considerable heterogeneity in that families differ in the age of end-stage renal disease and the occurrence of deafness.,disease:Deletions covering the N-terminal regions of COL4A5 and COL4A6, which are localized in a head-to-head manner, are the cause of diffuse leiomyomatosis with Alport syndrome (DL-ATS) [MIM:308940]; also known as esophageal and vulval leiomyomatosis with nephropathy or Alport syndrome and diffuse leiomyomatosis (ATS-DL). DL-ATS is the combination of AS and diffuse leiomyomatosis (DL). DL |

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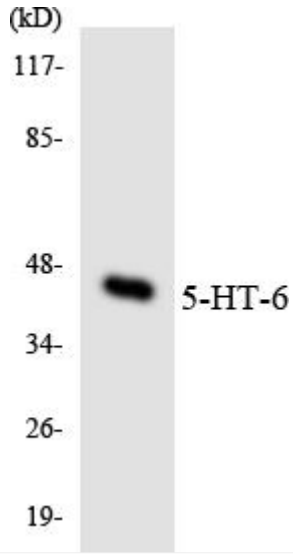
| | is a tumorous process involving smooth muscle cells, mostly of the esophagus, |
| **Background** | This gene encodes one of the six subunits of type IV collagen, the major structural component of basement membranes. Mutations in this gene are associated with X-linked Alport syndrome, also known as hereditary nephritis. Like the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene so that each gene pair shares a common promoter. Alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Aug 2010], |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

## Products Images




Western Blot analysis of various cells using COL4A5 Monoclonal Antibody