

## COL6A1 rabbit pAb

**Cat#: orb767621 (Manual)**

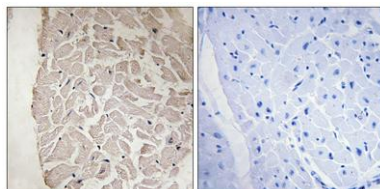
For research use only. Not intended for diagnostic use.

|                                 |   |
|---------------------------------|---|
| <b>Product Name</b>             | COL6A1 rabbit pAb   |
| <b>Host species</b>             | Rabbit  |
| <b>Applications</b>             | IHC;IF;ELISA  |
| <b>Species Cross-Reactivity</b> | Human;Mouse   |
| <b>Recommended dilutions</b>    | Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.                            |
| <b>Immunogen</b>                | The antiserum was produced against synthesized peptide derived from human Collagen VI alpha1. AA range:191-240        |
| <b>Specificity</b>              | COL6A1 Polyclonal Antibody detects endogenous levels of COL6A1 protein.   |
| <b>Formulation</b>              | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..  |
| <b>Storage</b>                  | Store at -20°C. Avoid repeated freeze-thaw cycles.  |
| <b>Protein Name</b>             | Collagen alpha-1(VI) chain  |
| <b>Gene Name</b>                | COL6A1  |
| <b>Cellular localization</b>    | Secreted, extracellular space, extracellular matrix .   |
| <b>Purification</b>             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| <b>Clonality</b>                | Polyclonal  |

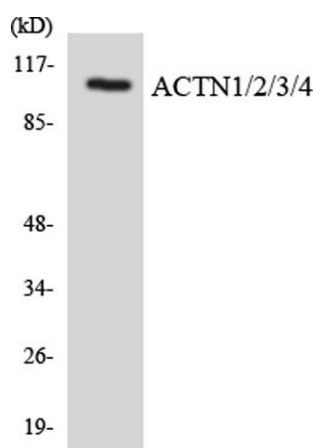
|                                |                                    |
|--------------------------------|------------------------------------|
| <b>Concentration</b>           | 1 mg/ml                            |
| <b>Observed band</b>           |                                    |
| <b>Human Gene ID</b>           | 1291                               |
| <b>Human Swiss-Prot Number</b> | P12109                             |
| <b>Alternative Names</b>       | COL6A1; Collagen alpha-1(VI) chain |

## Background

The collagens are a superfamily of proteins that play a role in maintaining the integrity of various tissues. Collagens are extracellular matrix proteins and have a triple-helical domain as their common structural element. Collagen VI is a major structural component of microfibrils. The basic structural unit of collagen VI is a heterotrimer of the alpha1(VI), alpha2(VI), and alpha3(VI) chains. The alpha2(VI) and alpha3(VI) chains are encoded by the COL6A2 and COL6A3 genes, respectively. The protein encoded by this gene is the alpha 1 subunit of type VI collagen (alpha1(VI) chain). Mutations in the genes that code for the collagen VI subunits result in the autosomal dominant disorder, Bethlem myopathy. [provided by RefSeq, Jul 2008],



**Immunohistochemistry analysis of paraffin-embedded human heart tissue, using Collagen VI alpha1 Antibody. The picture on the right is blocked with the synthesized peptide.**



Western blot analysis of the lysates from COLO205 cells using ACTN1/2/3/4 antibody.