

**A90350Ra01**  
**Polyclonal Antibody to Collagen Type I Alpha 1 (COL1a1)**  
***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY  
NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

3th Edition (Revised in February, 2012)

**[ PROUDUCT INFORMATION ]**

**Immunogen:** COL1a1

**Clonality:** Polyclonal

**Host:** Rabbit

**Species Reactivity:** Rat

**Ig type:** Rabbit IgG

**Purification:** Antibodies are purified by target protein affinity chromatography.

**Applications:** WB, ICC, IHC-P, IHC-F

**Form:** Liquid

**Size:** 200µL (500µg/mL)

**[ IMMUNOGEN INFORMATION ]**

**Immunogen:** Recombinant RatCOL1a1 (Lys1242~Val1453) expressed in *E.coli*.

**Molecular Weight:** 25 KDa

**USCN accession No.:** P90350Ra01

**Protein Sequence:** The target protein is fused with a His-tag and its sequence is listed below. The first Met is an initiator amino acid. Moreover, Gly and Ser are added to improve the flexibility of N-terminus at both ends of the His-tag, which will increase the chelating ability of the tag to Ni-Sepharose during purification.

KMCHSDWKSGEYWIDPNQGNCNLDAIKVYCNMETGQTCVFPTQPSVPQKNWYISPNPKEKKH  
VWFGESMTDGFQFEYGSEGSDPADVAIQLTFLRLMSTEASQNITYHCKNSVAYMDQQTGNLK  
KSLLLQGSNEIELRGEGNSRFTYSTLV DGCTSHGTW GKT VIEYKTTKTSRLPIIDVAPLDIGAP  
DQEF GMDIGPACFV



## **[ ANTIBODY SPECIFICITY ]**

Anti COL1a1 is a rabbit polyclonal antibody raised against rat COL1a1. This antibody has been selected for its ability to recognize rat COL1a1 in immunohistochemical staining and western blotting, non cross-reactive with other members of the family.

## **[ APPLICATIONS ]**

Western blotting: 1:100-400

Immunocytochemistry in formalin fixed cells: 1:100-500

Immunohistochemistry in formalin fixed frozen section: 1:100-500

Immunohistochemistry in paraffin section: 1:50-200

Optimal working dilutions must be determined by end user.

## **[ CONTENTS ]**

**Form & Buffer:** Supplied as solution form in PBS, pH 7.4, containing 0.02%Na<sub>3</sub>N, 20% glycerol.

## **[ STORAGE ]**

Store at 4°C for frequent use. Stored at -20°C to -80°C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.