

# QED Bioscience Inc.

ADVANCED RESEARCH TECHNOLOGIES

## Anti-SIRP $\alpha$ (CT) Antibody

### ORDERING INFORMATION

**Catalog No.:** 2428

**Size:** 100 ug IgG in PBS, pH 7.4, purified by immunoaffinity chroma-tography.

### BACKGROUND

Protein tyrosine phosphatases (PTPases), such as SHP-1 and SHP-2, are critical regulators in the intracellular signaling pathways that result in cell responses such as mitosis, differentiation, migration, survival, transformation or death. SHP-2 is a signal transducer for several receptor tyrosine kinases and cytokine receptors. A novel SHP-2 associated glycoprotein was recently cloned from human, rat, mouse, and cattle by several laboratories and was designated SIRP $\alpha$ , SHPS-1, and MyD-1. SIRP $\alpha$ /SHPS-1 is a new gene family containing at least fifteen members. SIRP $\alpha$ /SHPS-1 is a substrate of many activated tyrosine kinases such as insulin receptor, EGFR, PDGFR, and src, and is a specific docking protein for SHP-2. SIRP $\alpha$ /SHPS-1 has regulatory effects on cellular responses induced by serum, growth factors, insulin, oncogenes, and cell adhesion and plays a general role in different physiological and pathological processes.

### SPECIFICATION SUMMARY

**Antigen:** Peptide corresponding to the C-terminus of human SIRP $\alpha$ .

**Host Species:** Rabbit

**Stabilizers:** None

**Preservatives:** 0.02% sodium azide

### SPECIFICITY

This antibody recognizes full-length human SIRP $\alpha$  (75-110 kD). The sequence of this peptide differs from those of mouse, rat, and bovine SIRP $\alpha$  by one amino acid, so this antibody may be used to detect SIRP $\alpha$  of these species.

### APPLICATIONS

*Immunoblotting* : use a1:1,000-1:2,000 dilution.

*Positive control*: Whole cell lysate from THP-1 cells.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid multiple freeze-thaw cycles.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures*