

## InSig1 Polyclonal Antibody

**CATALOG NO:** 3854-30T 30 µg (Trial size)  
3854-100 100 µg

**HOST:** Rabbit

**IMMUNOGEN:** Synthetic peptide surrounding amino acid 248 of rat InSig1 (ID# BV-A32).

**SPECIES REACTIVITY:** Human, Mouse, Rat, Hamster, Bovine

### FORMULATION:

0.5 mg/ml in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.03% proclin.

### STORAGE CONDITIONS:

Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

### BACKGROUND:

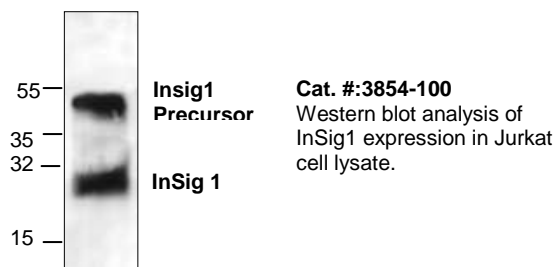
Insulin-induced gene (InSig) localizes in the endoplasmic reticulum(ER) and is highly expressed in the liver and fibroblast cell lines. InSig1 and InSig2 play important roles in the regulation of cholesterol biosynthesis. Sterol induces InSig1 binding to the sterol-sensing domain of SREBP cleavage-activating protein (SCAP). Both InSig1 and InSig2 prevent the export of SCAP from the ER and thus, inhibit cholesterol synthesis by preventing the proteolytic cleavage of SREBPs by the Golgi enzymes.

### SPECIFICITY:

The antibody recognizes ~30 kDa InSig-1 and its precursor (~50 kDa) in samples from human, mouse and rat origins. Reactivity to other species has not been tested.

### APPLICATION:

The antibody can be used in Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. Blocking peptide (Cat.# 3854BP-50) is available separately.



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