www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

# SOCS7 Rabbit pAb

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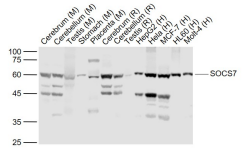
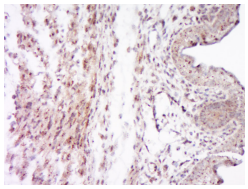
|---|---|
| Catalog Number: | bs-20151R |
| Target Protein: | SOCS7 |
| Concentration: | 1mg/ml |
| Form: | Liquid |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Isotype: | IgG |
| Applications: | WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500) |
| Reactivity: | Human, Mouse, Rat (predicted:Rabbit) |
| Predicted MW: | 63 kDa |
| Entrez Gene: | 30837 |
| Swiss Prot: | O14512 |
| Source: | KLH conjugated synthetic peptide derived from human SOCS7: 171-270/581. |
| Purification: | affinity purified by Protein A |
| Storage: | Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.<br>Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |
| Background: | The eight members of the recently identified Suppressor of Cytokines Signaling (SOCS) family are SOCS1, SOCS2, SOCS3, SOCS4, SOCS5, SOCS6, SOCS7, and CIS. Structurally the SOCS proteins are composed of an N- terminal region of variable length and amino acid composition, a central SH2 domain, and a C-terminal motif called the SOCS box. The SOCS proteins appear to form part of a classical negative feedback loop that regulates cytokine signal transduction. Transcription of each of the SOCS genes occurs rapidly in vitro and in vivo in response to cytokines, and once produced, the various members of the SOCS family appear to inhibit signaling in different ways. SOCS1 and SOCS6 interact with the insulin receptor (IR) when expressed in human hepatoma cells (HepG2) or in rat hepatoma cells overexpressing human IR. SOCS1 and SOCS6 inhibit insulin-dependent activation of ERK1/2 and protein kinase B in vivo and IR- directed phosphorylation of IRS1 in vitro. These results suggest that SOCS proteins may be inhibitors of IR signalling and could mediate cytokine-induced insulin resistance and contribute to the pathogenesis of type II diabetes. SOCS6 and SOCS7 are expressed ubiquitously in murine tissues and SOCS6 knockout mice are growth retarded. |

## VALIDATION IMAGES




Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Cerebellum (Mouse) Lysate at 40 ug Lane 3: Testis (Mouse) Lysate at 40 ug Lane 4: Stomach (Mouse) Lysate at 40 ug Lane 5: Placenta (Mouse) Lysate at 40 ug Lane 6: Cerebrum (Rat) Lysate at 40 ug Lane 7: Cerebellum (Rat) Lysate at 40 ug Lane 8: Testis (Rat) Lysate at 40 ug Lane 9: HepG2 (Human) Cell Lysate at 30 ug Lane 10: Hela (Human) Cell Lysate at 30 ug Lane 11: MCF-7 (Human) Cell Lysate at 30 ug Lane 12: HL60 (Human) Cell Lysate at 30 ug Lane 13: Molt-4 (Human) Cell Lysate at 30 ug Primary: Anti-SOCS7 (bs-20151R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 63 kD Observed band size: 60 kD



Tissue/cell: Mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-SOCS7 Polyclonal Antibody, Unconjugated(bs-20151R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

## PRODUCT SPECIFIC PUBLICATIONS

[IF=11.161] Du, Yanhua. et al. SOCS7/HuR/FOXM1 signaling axis inhibited high-grade serous ovarian carcinoma progression. J EXP CLIN CANC RES. 2022 Dec;41(1):1-16 IHC ; Human . 35624501