**BACKGROUND**
CHIP (carboxy-terminus of HSP 70-interacting protein), also designated STIP1 homology and U-box containing protein 1, HSPABP2, NY-CO-7, SDCCAG7 and STUB1, is a cytoplasmic E3 ubiquitin ligase that influences protein ubiquitylation. CHIP interacts with Smad1/Smad4 and blocks BMP signaling through the ubiquitin-mediated degradation of Smad proteins. It controls both association of HSP 70/HSP 90 chaperones with ErbB2 and downregulation of ErbB2 induced by inhibitors of HSP 90. A 1.3-kb transcript is most abundant in striated muscle (heart and skeletal muscle), with lower expression in pancreas and brain.

**CHROMOSOMAL LOCATION**
Genetic locus: STUB1 (human) mapping to 16p13.3; Stub1 (mouse) mapping to 17 A3.3.

**SOURCE**
CHIP (G-2) is a mouse monoclonal antibody raised against amino acids 73-303 mapping at the C-terminus of CHIP of human origin.

**PRODUCT**
Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.
CHIP (G-2) is available conjugated to agarose (sc-133066 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-133066 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-133066 PE), fluorescein (sc-133066 FITC), Alexa Fluor® 488 (sc-133066 AF488), Alexa Fluor® 546 (sc-133066 AF546), Alexa Fluor® 594 (sc-133066 AF594) or Alexa Fluor® 647 (sc-133066 AF647), 200 µg/ml, for WB (RGB), IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-133066 AF680) or Alexa Fluor® 790 (sc-133066 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**
CHIP (G-2) is recommended for detection of CHIP of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein [1 ml of cell lysate]), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CHIP siRNA (h): sc-43555, CHIP siRNA (m): sc-44731, CHlP shRNA Plasmid (h): sc-43555-SH, CHIP shRNA Plasmid (m): sc-44731-SH, CHIP shRNA (h) Lentiviral Particles: sc-43555-V and CHIP shRNA (m) Lentiviral Particles: sc-44731-V.

Molecular Weight of CHIP: 35 kDa.

Positive Controls: CHIP (m2): 293T Lysate: sc-119227, CHIP (h): 293T Lysate: sc-170019 or HeLa whole cell lysate: sc-2200.

**RESEARCH USE**
For research use only, not for use in diagnostic procedures.

**STORAGE**
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**
CHIP (G-2): sc-133066. Western blot analysis of CHIP expression in non-transfected 293T: sc-117752 (A), human CHIP transfected 293T: sc-170019 (B) and HeLa (C) whole cell lysates.

CHIP (G-2): sc-133066. Western blot analysis of CHIP expression in non-transfected: sc-117752 (A) and mouse CHIP transfected: sc-119227 (B) 293T whole cell lysates.

**SELECT PRODUCT CITATIONS**

**PROTOCOLS**
See our web site at www.scbt.com for detailed protocols and support products.