BACKGROUND
SH3BGRL3 (SH3 domain binding glutamic acid-rich protein like 3) is a 93 amino acid ubiquitously expressed protein that belongs to the SH3BG family as well as the thioredoxin (TRX) super family. Protein interactions involving SH3 domains have been implicated in signal transduction, cytoskeletal rearrangements, membrane trafficking, and other key cellular processes. The SH3BGRL3 protein contains one glutaredoxin domain. Localizing to cytoplasm and nucleus, SH3BGRL3 could act as a modulator of glutaredoxin biological activity. The SH3BGRL3 gene is conserved in dog, cow, mouse, rat, chicken and zebrafish, and maps to human chromosome 1q36.1. The chicken SH3BGRL3 protein shares 90 and 88% identity with the human and mouse proteins and shows a significant similarity to Glutaredoxin 1 of *Escherichia coli*.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: SH3BGRL3 (human) mapping to 1p36.11; SH3bgrl3 (mouse) mapping to 4 D3.

SOURCE
SH3BGRL3 (D-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SH3BGRL3 of human origin.

PRODUCT
Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-163365 P, [100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA].

APPLICATIONS
SH3BGRL3 (D-13) is recommended for detection of SH3BGRL3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with SH3BGRL or SH3BGRL2.

SH3BGRL3 (D-13) is also recommended for detection of SH3BGRL3 in additional species, including bovine.

Suitable for use as control antibody for SH3BGRL3 siRNA (h); sc-78714, SH3BGRL3 siRNA (m); sc-153435, SH3BGRL3 shRNA Plasmid (h); sc-78714-SH, SH3BGRL3 shRNA Plasmid (m); sc-153435-SH, SH3BGRL3 shRNA (h) Lentiviral Particles: sc-78714-V and SH3BGRL3 shRNA (m) Lentiviral Particles: sc-153435-V.

Molecular Weight of SH3BGRL3: 10 kDa.

RECOMMENDED SECONDARY REAGENTS
To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR : sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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

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

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