BACKGROUND
Fibroblast growth factors (FGFs) represent a family of over 20 distinct proteins that are ubiquitously expressed in mammalian systems. FGFs are influential in development, adult tissue homeostasis, angiogenesis and cancer progression. Fibroblast growth factor binding protein, known as FGF-BP, is a secreted protein that binds FGF-1 and FGF-2 and is involved in mobilization and activation of FGFs from the extracellular matrix (ECM). Normal adult human tissues have low levels of FGF-BP expression, whereas its expression is significantly elevated in various tumors, including head, neck, skin, cervical and lung squamous cell carcinomas. FGF-BP expression is upregulated during early phases of tumorigenesis, indicating that the role of FGF-BP in angiogenesis is a critical early step in the development and progression of tumors. Decrease in the growth and angiogenesis of xenograft tumors in mice parallels a reduction in FGF-BP levels, suggesting that tumors can utilize FGF-BP as an angiogenic switch molecule. C/EBP and AP-1 are the main promoter elements required for activation of FGF-BP in response to serum and EGF, respectively.

REFERENCES

SOURCE
FGF-BP (M-108) is a rabbit polyclonal antibody raised against amino acids 51-158 mapping within an internal region of FGF-BP of mouse origin.

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

APPLICATIONS
FGF-BP (M-108) is recommended for detection of FGF-BP of mouse and rat origin by Western Blotting (starting dilution 1:200, 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); non cross-reactive with other FGF-BP proteins.

Molecular Weight of FGF-BP: 26 kDa.

RECOMMENDED SECONDARY REAGENTS
To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2003 (dilution range: 1:100-1:1000) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:1000) 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.