BACKGROUND
Zinc finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. ZFYVE19 (zinc finger, FYVE domain containing 19), also known as MFPYVE (MLL partner containing FYVE domain), is a 471 amino acid protein that contains one FYVE-type zinc finger. Expressed in heart, brain, kidney, skeletal muscle and liver, ZFYVE19 may participate in transcriptional regulation events within the cell. Defects in the gene encoding ZFYVE19 are associated with acute myeloblastic leukemia (AML), a rapidly progressing cancer of the myeloid line of white blood cells that is characterized by fever, anemia, bone pain, shortness of breath and frequent infections. Three isoforms of ZFYVE19 exist due to alternative splicing events.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: ZFYVE19 (human) mapping to 15q15.1; Zfyve19 (mouse) mapping to 2 E5.

SOURCE
ZFYVE19 (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZFYVE19 of human origin.

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

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-165939 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS
ZFYVE19 (D-14) is recommended for detection of ZFYVE19 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 other ZFYVE family members.

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-203S, 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.

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

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