EBP (A-9): sc-374267

**BACKGROUND**

EBP (emopamil-binding protein), also known as CPX, CHO2, CPXO or CPDX2, is a 230 amino acid multi-pass membrane protein that localizes to the endoplasmic reticulum (ER) and is involved in steroid biosynthesis. Functioning to catalyze the conversion of Δ8-sterols to their corresponding Δ7-isomers, EBP plays an important role in drug transport and cholesterol metabolism within the ER. Defects in the gene encoding EBP are the cause of chondrodysplasia punctata type 2 (CDPX2), a heterogeneous disorder that is caused by defective cholesterol biosynthesis. CDPX2 is characterized by punctiform calcification of the bones leading to linear ichthyosis, cataracts and short stature.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: EBP (human) mapping to Xp11.23; Ebp (mouse) mapping to X A1.1.

**SOURCE**

EBP (A-9) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 1-25 at the N-terminus of EBP 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. Blocking peptide available for competition studies, sc-374267 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

EBP (A-9) is recommended for detection of EBP 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), immunohistochemistry (including paraffin-embedded sections) (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 EBP siRNA (h): sc-77218, EBP siRNA (m): sc-77219, EBP shRNA Plasmid (h): sc-77218-SH, EBP shRNA Plasmid (m): sc-77219-SH, EBP shRNA (h) Lentiviral Particles: sc-77218-V and EBP shRNA (m) Lentiviral Particles: sc-77219-V.

Molecular Weight of EBP: 26 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HeLa whole cell lysate: sc-2200 or Hep G2 cell lysate: sc-2227.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

**DATA**

**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.