

PIPOX polyclonal antibody

Catalog: BCP01314

Host: Rabbit

Reactivity: Human,Mouse,Rat

BackGround:

PIPOX (pipecolic acid oxidase), also known as LPIPOX or PSO, is a 390 amino acid protein that localizes to the peroxisome and belongs to the MSOX/MTOX family. Existing as a monomer, PIPOX uses FAD as a cofactor to catalyze the metabolism and subsequent degradation of sarcosine, L-pipecolic acid and L-proline. The gene encoding PIPOX maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell

death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, though specifically it is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 44 kDa

Swiss-Prot:

Q9P0Z9

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

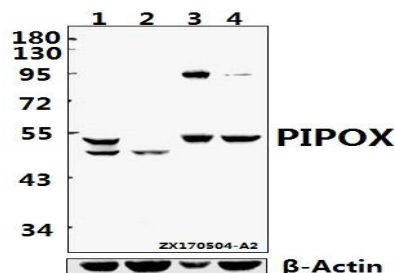
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

PIPOX polyclonal antibody detects endogenous levels of PIPOX protein.

DATA:



Western blot (WB) analysis of PIPOX polyclonal antibody at 1:500 dilution

Lane1:HepG2 whole cell lysate(40ug)

Lane2:L02 whole cell lysate(40ug)

Lane3:PC12 whole cell lysate(40ug)

Lane4:CT26 whole cell lysate(40ug)

Note:

For research use only, not for use in diagnostic procedure.