Cleaved-Cathepsin A (R326) polyclonal antibody

Catalog: BCP00515	Host: Rabbit	Reactivity: Human,Mouse,Rat

BackGround:

The cathepsin family of proteolytic enzymes include several diverse classes of proteases. Cathepsins B, L, H, K, S and O comprise the cysteine protease class. Cathepsins D and E comprise the aspartyle protease class. The serine protease class includes cathepsin G. Cathepsins function in cellular metabolism and participate in peptide biosynthesis and protein degradation. Cathepsin A, a serine carboxypeptidase, exists in a high molecular weight lysosomal complex with b-galactosidase (b-gal) and a-neuraminidase (Neu1). Cathepsin A functions to protect b-gal and Neu1 from intralysosomal proteolysis. Deficiencies in cathepsin A lead to deficiencies in b-gal and Neu1 . The gene encoding human cathepsin A maps to chromosome 20q13.12. Mutations in this gene cause glactosialidosis, a lysosomal storage disorder resulting from the b-gal and Neu1 deficiencies.

Product:

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

Molecular Weight:

~ 32, 54 kDa

Swiss-Prot:

P10619

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).
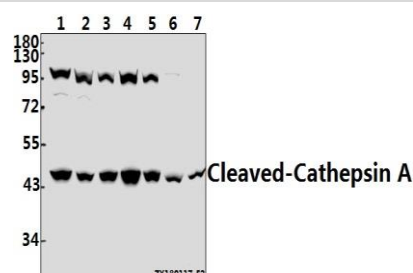
Applications:

WB: 1:500~1:1000

Storage&Stability:

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

Specificity:

Cleaved-Cathepsin A (R326) polyclonal antibody detects endogenous levels of Lysosomal protective protein 32 kDa chain.

DATA:

Western blot (WB) analysis of Cleaved-Cathepsin A (R326) pAb at 1:500 dilution

Lane1:HCT116 whole cell lysate(40ug)

Lane2:L02 whole cell lysate(40ug)

Lane3:HepG2 whole cell lysate(40ug)

Lane4:AML-12 whole cell lysate(40ug)

Lane5:PC12 whole cell lysate(40ug)

Lane6:The Kidney tissue lysate of Mouse(40ug)

Lane7:The Kidney tissue lysate of Rat(40ug)

Note:

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