

ERAP1 (K467) polyclonal antibody

Catalog: BCP00733

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

The endoplasmic reticulum (ER) aminopeptidase 1 (ERAP1) is a 120 kDa protein localized to the lumen of the ER, which removes NH₂-terminal residues from many antigenic precursors for MHC class I peptide presentation. Peptides that are presented by MHC class I on the surface of a cell must be 8-11 residues long, and ERAP1 specifically trims peptides of 9 amino acids or more. ERAP1 is also induced by interferon- γ . The gene encoding human ERAP1 maps to chromosome 5q15. ERAP1 has previously been characterized as adipocyte-derived leucine aminopeptidase (A-LAP), puromycin-insensitive leucine-specific aminopeptidase (PILS-AP) and aminopeptidase regulator of TNFR1 shedding (ARTS-1). A-LAP is thought to inactivate several bioactive peptides, including angiotensin II and, subsequently, may be involved in the regulation of blood pressure. PILS-AP is described as playing a role in angiogenesis by regulating the proliferation and migration of endothelial cells, and ARTS-1 is characterized as a TNFR1 binding protein that promotes TNFR1 shedding. Further research will be necessary to fully elucidate the functions of this protein.

Product:

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

Molecular Weight:

~ 110 kDa

Swiss-Prot:

Q9NZ08

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

IHC: 1:50~1:200

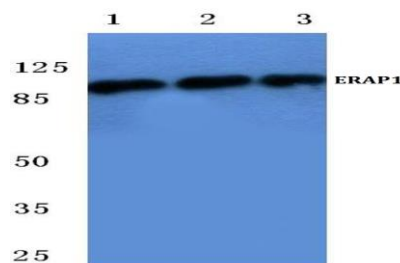
IF: 1:50~1:200

Storage&Stability:

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

Specificity:

ERAP1 (K467) polyclonal antibody detects endogenous levels of ERAP1 protein.

DATA:

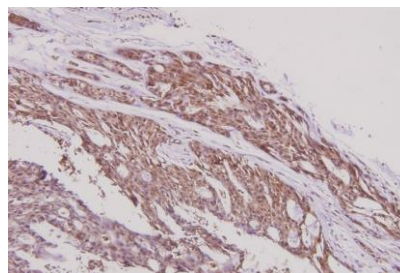
Western blot (WB) analysis of ERAP1 (K467) pAb at 1:500 dilution

Lane1:HepG2 whole cell lysate(40ug)

Lane2:HEK293T whole cell lysate(20ug)

Lane3:PC12 whole cell lysate(20ug)

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



Immunohistochemistry (IHC) analyzes of ERAP1 (K467) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

Note:

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