

Keratin 20 (Phospho Ser13) Rabbit pAb

CatalogNo: YP1378

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA, IHC

MW

- 49kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-300

ELISA 1:2000-20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho peptide around human Keratin 20 (Ser13)

Specificity This antibody detects endogenous levels of Human Keratin 20 (phospho-Ser13)

Target Information

Gene name KRT20

Protein Name

Keratin 20 (Ser13)

Organism	Gene ID	UniProt ID
Human	54474 ;	P35900 ;
Mouse	66809 ;	Q9D312 ;
Rat	286912 ;	P25030 ;

Cellular Localization

Cytoplasm .

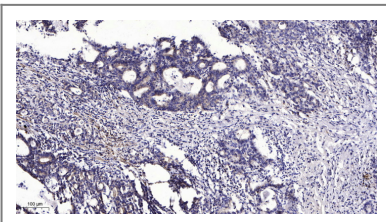
Tissue specificity

Expressed predominantly in the intestinal epithelium. Expressed in luminal cells of colonic mucosa. Also expressed in the Merkel cells of keratinized oral mucosa; specifically at the tips of some rete ridges of the gingival mucosa , in the basal layer of the palatal mucosa and in the taste buds of lingual mucosa.

Function

developmental stage:First detected at embryonic week 8 in individual 'converted' simple epithelial cells of the developing intestinal mucosa. In later fetal stages , synthesis extends over most goblet cells and a variable number of villus enterocytes. In the developing gastric and intestinal mucosa , expressed in all enterocytes and goblet cells as well as certain 'low-differentiated' columnar cells , whereas the neuroendocrine and Paneth cells are negative. ,Function:Plays a significant role in maintaining keratin filament organization in intestinal epithelia. When phosphorylated , plays a role in the secretion of mucin in the small intestine. ,miscellaneous:There are two types of cytoskeletal and microfibrillar keratin: I (acidic; 40-55 kDa) and II (neutral to basic; 56-70 kDa) . ,PTM:Hyperphosphorylation at Ser-13 occurs during the early stages of apoptosis but becomes less prominent during the later stages. Phosphorylation at Ser-13 also increases in response to stress brought on by cell injury. ,PTM:Proteolytically cleaved by caspases during apoptosis. Cleavage occurs at Asp-228. ,similarity:Belongs to the intermediate filament family. ,subunit:Heterotetramer of two type I and two type II keratins. Associates with KRT8. ,tissue specificity:Expressed predominantly in the intestinal epithelium. Expressed in luminal cells of colonic mucosa. Also expressed in the Merkel cells of keratinized oral mucosa; specifically at the tips of some rete ridges of the gingival mucosa , in the basal layer of the palatal mucosa and in the taste buds of lingual mucosa. ,

Validation Data



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).

Contact information

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