



Cytokeratin 19 Monoclonal Antibody

Catalog No	YP-mAb-03116
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	KRT19
Immunogen	The antiserum was produced against synthesized peptide derived from human Keratin 19. AA range:231-280
Specificity	Cytokeratin 19 Monoclonal Antibody detects endogenous levels of Cytokeratin 19 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CK 19;CK19;KRT19;CK-19;Cytokeratin;Keratin;Cytokeratin 19;Keratin type I cytoskeletal 19;type I cytoskeletal 19;Cytokeratin-19;Keratin-19;K19
Observed Band	44kD
Calculated Molecular Weight	44kD
Cell Pathway	intermediate filament,plasma membrane,dystrophin-associated glycoprotein complex,Z disc,sarcolemma,costamere,extracellular exosome,cell periphery, terminal web,
Tissue Specificity	Expressed in a defined zone of basal keratinocytes in the deep outer root sheath of hair follicles. Also observed in sweat gland and mammary gland ductal and secretory cells, bile ducts, gastrointestinal tract, bladder urothelium, oral epithelia, esophagus, ectocervical epithelium (at protein level). Expressed in epidermal basal cells, in nipple epidermis and a defined region of the hair follicle. Also seen in a subset of vascular wall cells in both the veins and artery of human umbilical cord, and in umbilical cord vascular smooth muscle. Observed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma in structures that contain dystrophin and spectrin.

**Function**

developmental stage: Present in hair follicles at all stages of development.,
domain: This keratin differs from all other IF proteins in lacking the C-terminal tail domain.,
function: Involved in the organization of myofibers. Together with KRT8, helps to link the contractile apparatus to dystrophin at the costameres of striated muscle.,
miscellaneous: There are two types of cytoskeletal and microfibrillar keratin: I (acidic; 40-55 kDa) and II (neutral to basic; 56-70 kDa).,
similarity: Belongs to the intermediate filament family.,
subunit: Heterotetramer of two type I and two type II keratins. Interacts with PNN and the actin-binding domain of DMD. Interacts with HCV core protein.,
tissue specificity: Expressed in a defined zone of basal keratinocytes in the deep outer root sheath of hair follicles. Also observed in sweat gland and mammary gland ductal and secretory cells, bile ducts, gastrointestinal

Background

The protein encoded by this gene is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. Unlike its related family members, this smallest known acidic cytokeratin is not paired with a basic cytokeratin in epithelial cells. It is specifically expressed in the periderm, the transiently superficial layer that envelopes the developing epidermis. The type I cytokeratins are clustered in a region of chromosome 17q12-q21. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images