

# Cytokeratin 19 Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1232a

#### **Product Information**

**Application** WB, IHC, E **Primary Accession** P08727 Reactivity Human Host Mouse Clonality Monoclonal **Clone Names** 9H8G6 Isotype IgG1 **Calculated MW** 44106

**Description** Cytokeratin 19, also known as KRT19, CK19, K1CS, MGC15366. Entrez

Protein NP\_002267. It 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.

**Immunogen** Purified recombinant fragment of Cytokeratin 19 (aa80-400) expressed in E.

Coli.

**Formulation** Ascitic fluid containing 0.03% sodium azide.

## **Additional Information**

Gene ID 3880

Other Names Keratin, type I cytoskeletal 19, Cytokeratin-19, CK-19, Keratin-19, K19, KRT19

**Dilution** WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~N/A

**Storage** Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** Cytokeratin 19 Antibody is for research use only and not for use in diagnostic

or therapeutic procedures.

## **Protein Information**

Name KRT19

**Function** 

Involved in the organization of myofibers. Together with KRT8, helps to link the contractile apparatus to dystrophin at the costameres of striated muscle.

**Tissue Location** 

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.

#### References

1. Lung Cancer. 2007 Dec;58(3):369-75. 2. Endocr Pract. 2008 Mar;14(2):168-74.

# **Images**

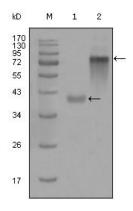


Figure 1: Western blot analysis using anti-KRT19 monoclonal antibody against truncated KRT19-His recombinant protein (1) and full-length KRT19(aa1-400)-hIgGFc transfected CHO-K1 cell lysate(2).

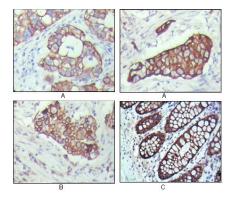


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma(A), lung cancer(B) and normal colon tissue(C), showing cytoplasmic localization with DAB staining using KRT19 mouse mAb.

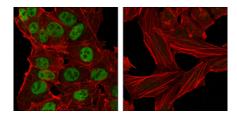
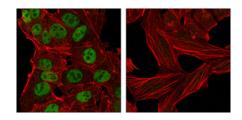


Figure 2: Confocal immunofluorescence analysis of NTERA-2 cells (left) and HeLa cells (right) using Nanog mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin.

Figure 2: Confocal immunofluorescence analysis of NTERA-2 cells (left) and HeLa cells (right) using anti-Nanog



Mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.