

Anti-Cytokeratin 12 Rabbit Monoclonal Antibody

Catalog # ABO16052

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	Q99456
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-Cytokeratin 12 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	3859
Other Names	Keratin, type I cytoskeletal 12, Cytokeratin-12, CK-12, Keratin-12, K12, KRT12
Calculated MW	53511
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 26K31
Immunogen	A synthesized peptide derived from human Cytokeratin 12
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	KRT12 (HGNC:6414)
Function	Structural component of intermediate filaments in the corneal epithelium. Forms heteropolymers with the type II keratin KRT3, assembling into keratin intermediate filament networks that provide mechanical strength and structural integrity to the corneal epithelial layer.

Images

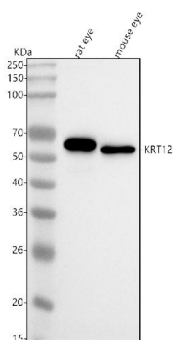


Figure 1. Western blot analysis of KRT12 using anti-KRT12 antibody (M05227).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat eye tissue lysates,

Lane 2: mouse eye tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-KRT12 antigen affinity purified monoclonal antibody (Catalog # M05227) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for KRT12 at approximately 54 kDa. The expected band size for KRT12 is at 54 kDa.

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