

Anti-AKAP14 Rabbit Monoclonal Antibody

Catalog # ABO13839

Product Information

Application	WB, IF, ICC, IP
Primary Accession	Q86UN6
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-AKAP14 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	158798
Other Names	A-kinase anchor protein 14, AKAP-14, A-kinase anchor protein 28 kDa, AKAP 28, Protein kinase A-anchoring protein 14, PRKA14, AKAP14, AKAP28
Calculated MW	22815
Application Details	WB 1:500-1:2000 ICC/IF 1:50-1:200 IP 1:50
Subcellular Localization	Cytoplasm.
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: FGO-1
Immunogen	A synthesized peptide derived from human AKAP14
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	AKAP14
Synonyms	AKAP28

Function	Binds to type II regulatory subunits of protein kinase A and anchors/targets them.
Cellular Location	Cytoplasm.
Tissue Location	Present in cilia (at protein level). Expressed in tissues containing axoneme-based organelles (cilia and/or flagella): trachea and testis. Highly expressed in airway cilia

Images

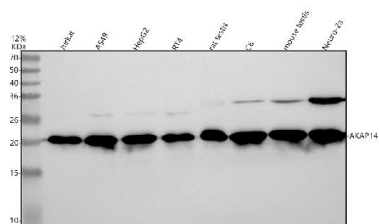


Figure 1. Western blot analysis of AKAP14 using anti-AKAP14 antibody (M15886).

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: human Jurkat whole cell lysates,

Lane 2: human A549 whole cell lysates,

Lane 3: human HepG2 whole cell lysates,

Lane 4: human RT4 whole cell lysates,

Lane 5: rat testis tissue lysates,

Lane 6: rat C6 whole cell lysates,

Lane 7: mouse testis tissue lysates,

Lane 8: mouse Neuro-2a whole cell 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-AKAP14 antigen affinity purified monoclonal antibody (Catalog # M15886) 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 AKAP14 at approximately 21,23 kDa. The expected band size for AKAP14 is at 21 kDa.

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