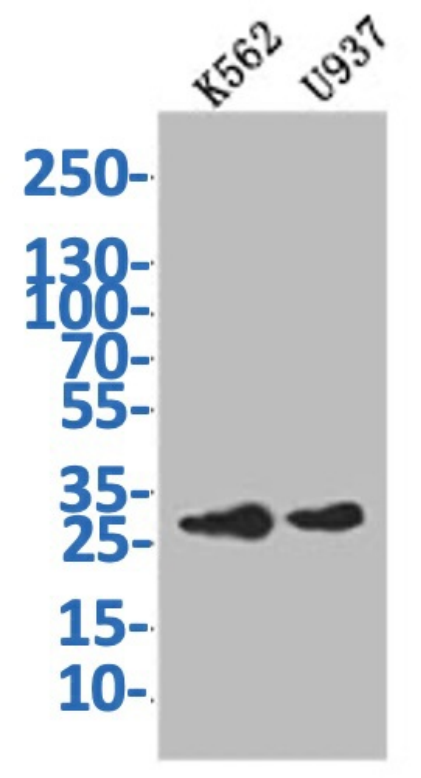
RecomAb™

CA1 recombinant monoclonal antibody, clone 26E3

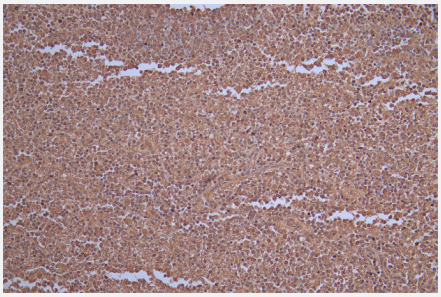
Catalog # RAB07718 Size 100 uL

Applications



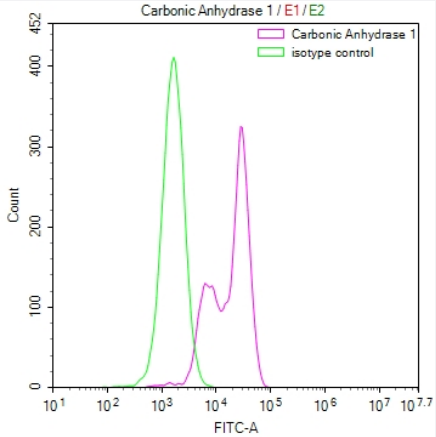
Western Blot

Western Blot analysis of Lane 1: K562 whole cell lysate; Lane 2: U937 whole cell lysate.



Immunohistochemistry

Immunohistochemistry image of CA1 recombinant monoclonal antibody, clone 26E3 diluted at 1:50 and staining in paraffin-embedded human spleen tissue performed on a Leica BondTM system.



Flow Cytometry

Overlay Peak curve showing MCF-7 cells stained with CA1 recombinant monoclonal antibody, clone 26E3 (red line) at 1:50.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CA1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human CA1.
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry(1:50-1:200) Immunohistochemistry(1:50-1:200) Western Blot(1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot

  Western Blot analysis of Lane 1: K562 whole cell lysate; Lane 2: U937 whole cell lysate.

- Immunohistochemistry

  Immunohistochemistry image of CA1 recombinant monoclonal antibody, clone 26E3 diluted at 1:50 and staining in paraffin-embedded human spleen tissue performed on a Leica BondTM system.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

  Overlay Peak curve showing MCF-7 cells stained with CA1 recombinant monoclonal antibody, clone 26E3 (red line) at 1:50.

Gene Info — CA1

Entrez GeneID	759
Protein Accession#	P00915
Gene Name	CA1
Gene Alias	Car1
Gene Description	carbonic anhydrase I
Omim ID	114800
Gene Ontology	Hyperlink
Gene Summary	Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respir ation, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cer ebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA1 is closely linked to CA2 and CA3 genes on chromosome 8, and it encodes a cytosolic protein which is found at the highest level in erythrocytes. Variants of this ge ne have been described in some populations. Multiple alternatively spliced variants, encoding the same protein, have been identified. Transcript variants of CA1 utilizing alternative polyA_sites hav e been described in literature. [provided by RefSeq
Other Designations	carbonic dehydratase

Pathway

- Nitrogen metabolism

Disease

- Diabetic Retinopathy