

Anti-Aspartate Aminotransferase Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

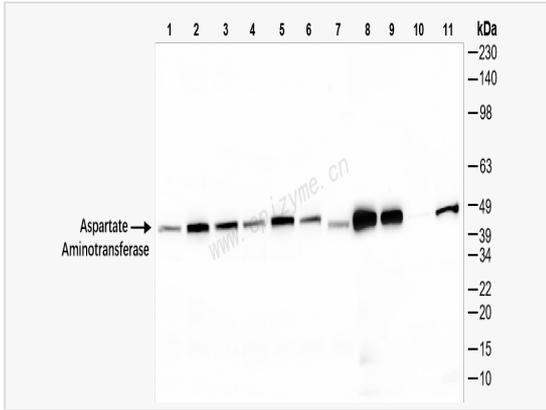
Catalog # R013665

Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	58M98K91
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Aspartate Aminotransferase
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Aspartate Aminotransferase Rabbit mAb [58M98K91] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	AATC_HUMAN; Aspartate aminotransferase 1; Aspartate aminotransferase; Aspartate aminotransferase cytoplasmic; Aspartate aminotransferase cytosolic; ASTQTL1; cAspAT; cCAT; cysteine aminotransferase, cytoplasmic; cysteine transaminase, cytoplasmic; cytoplasmic; ec 2.6.1.1; GIG 18; GIG18; Glutamate oxaloacetate transaminase 1; Glutamate oxaloacetate transaminase soluble; Glutamic oxaloacetic transaminase 1 soluble; GOT 1; GOT1; Growth inhibiting protein 18; SGOT; Transaminase A.
Calculated MW	Calculated MW: 46 kDa; Observed MW: 46 kDa
Uniprot ID	P17174
Gene ID	2805
Background	Glutamic-oxaloacetic transaminase is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and mitochondrial forms, GOT1 and GOT2, respectively. GOT plays a role in amino acid metabolism and the urea and tricarboxylic acid cycles. The two enzymes are homodimeric and show close homology. [provided by RefSeq, Jul 2008]



Western Blot - Anti-Aspartate Aminotransferase Rabbit mAb [58M98K91]

All lanes: R013665 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: 293T (Human embryonic kidney cell) whole cell lysates

Lane 5: K562 (Human chronic myeloid leukemia cell) whole cell lysates

Lane 6: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates

Lane 7: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 8: Mouse heart whole tissue lysates

Lane 9: Mouse liver whole tissue lysates

Lane 10: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

Lane 11: Rat brain whole tissue lysates

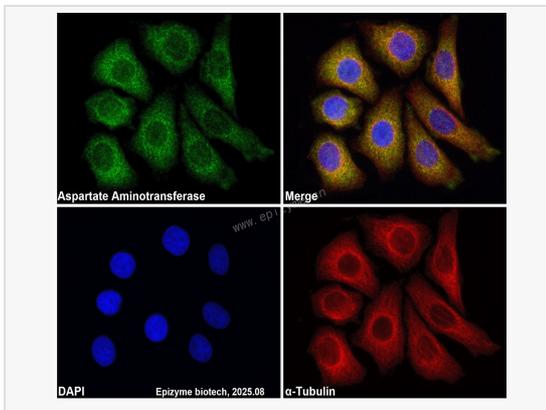
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 46 kDa

Observed band size: 46 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Aspartate Aminotransferase Rabbit mAb [58M98K91]

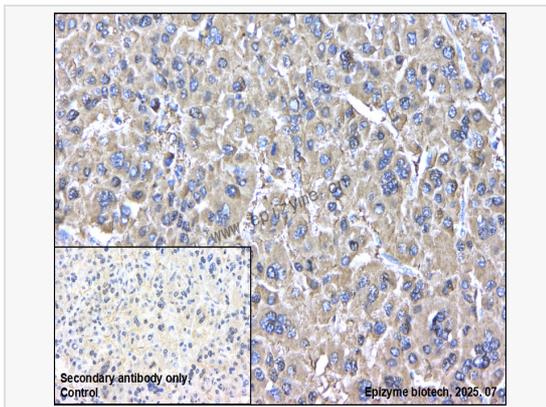
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R013665 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (CY3) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-Aspartate Aminotransferase Rabbit mAb [58M98K91]

Sample: Paraformaldehyde-fixed, paraffin embedded human hepatoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013665 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.