

## Anti-HMGCL Antibody (2T378)

### Product Details

|               |                         |
|---------------|-------------------------|
| Ig Type:      | Rabbit IgG              |
| Reactivity:   | Human                   |
| Conjugation:  | Unconjugated            |
| Clone:        | 2T378                   |
| Purification: | Affinity-chromatography |

### Applications

|                    |   |
|--------------------|---|
| Verified Activity: | <p>1. Western Blot</p> <ul style="list-style-type: none"> <li>-Positive WB detected in: Hela whole cell lysate, PC-3 whole cell lysate, HEK293 whole cell lysate, A549 whole cell lysate, HepG2 whole cell lysate</li> <li>-All lanes: HMGCL antibody at 1:1000</li> <li>-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution</li> <li>-Predicted band size: 35, 27, 21 kDa</li> <li>-Observed band size: 35 kDa</li> </ul> <p>2. IHC image of TMAH-00560 diluted at 1:100 and staining in paraffin-embedded human prostate tissue performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB.</p> <p>3. Overlay Peak curve showing Hela cells stained with TMAH-00560 (red line) at 1:100. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*10<sup>6</sup> cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG (H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was rabbit IgG (1ug/1*10<sup>6</sup> cells) used under the same conditions. Acquisition of &gt;10,000 events was performed.</p> |
| Application:       | ELISA, WB, IHC, FCM   |
| Recommended        | WB:1:500-1:2000; IHC:1:50-1:200; FCM:1:50-1:200.  |

### Properties

|                      |   |
|----------------------|---|
| Stability & Storage: | Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping:            | Shipping with blue ice.   |

### Antigen Details

|                  |   |
|------------------|---|
| Immunogen:       | A synthetic peptide: Human HMGCL  |
| Antigen Species: | Human   |
| Gene ID:         | 3155  |
| Uniprot ID:      | P35914  |
| Synonyms:        | HMG-CoA lyase;mitochondrial;Hydroxymethylglutaryl-CoA lyase;HL;3-hydroxy-3-methylglutarate-CoA lyase;EC 4.1.3.4 |
| Biology Area:    | Cancer, Metabolism, Signal transduction   |

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### Research Background

Mitochondrial 3-hydroxymethyl-3-methylglutaryl-CoA lyase that catalyzes a cation-dependent cleavage of (S)-3-hydroxy-3-methylglutaryl-CoA into acetyl-CoA and acetoacetate, a key step in ketogenesis. Terminal step in leucine catabolism. Ketone bodies (beta-hydroxybutyrate, acetoacetate and acetone) are essential as an alternative source of energy to glucose, as lipid precursors and as regulators of metabolism.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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