

Datasheet for ABIN7603191
anti-YTHDF2 antibody (N-Term)



[Go to Product page](#)

Overview

| | |
|----------------------|--|
| Quantity: | 100 µg |
| Target: | YTHDF2 |
| Binding Specificity: | N-Term |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This YTHDF2 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC) |

Product Details

| | |
|-----------------------------|---|
| Purpose: | Anti-YTHDF2 Antibody Picoband® |
| Immunogen: | A synthetic peptide corresponding to a sequence at the N-terminus of human YTHDF2, identical to the related mouse and rat sequences. |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins. |
| Characteristics: | Anti-YTHDF2 Antibody Picoband® (ABIN7603191). Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: YTHDF2

Alternative Name: YTHDF2 ([YTHDF2 Products](#))

Background: Synonyms: Homeobox protein SIX3, Sine oculis homeobox homolog 3, SIX3, Tissue Specificity: Highly expressed in placenta, lung, kidney, testis and ovary. Weakly expressed in spleen and thymus. Not expressed in peripheral blood lymphocytes. Detected in hippocampus.

Background: YTH N6-methyladenosine RNA binding protein 2 is a protein that in humans is encoded by the YTHDF2 gene. This gene encodes a member of the YTH (YT521-B homology) superfamily containing YTH domain. The YTH domain is typical for the eukaryotes and is particularly abundant in plants. The YTH domain is usually located in the middle of the protein sequence and may function in binding to RNA. In addition to a YTH domain, this protein has a proline rich region which may be involved in signal transduction. An Alu-rich domain has been identified in one of the introns of this gene, which is thought to be associated with human longevity. In addition, reciprocal translocations between this gene and the Runx1 (AML1) gene on chromosome 21 has been observed in patients with acute myeloid leukemia. This gene was initially mapped to chromosome 14, which was later turned out to be a pseudogene. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene.

Molecular Weight: 65 kDa

Gene ID: 51441

UniProt: [Q9Y5A9](#)

Application Details

Application Notes: Western blot, 0.1-0.25 µg/mL, Human, Mouse, Rat

Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human, Mouse, Rat

Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human

Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human, Mouse, Rat

1. Bonafe, M., Cardelli, M., Marchegiani, F., Cavallone, L., Giovagnetti, S., Olivieri, F., Lisa, R., Pieri, C., Franceschi, C. Increase of homozygosity in centenarians revealed by a new inter-Alu PCR technique. Exp. Gerontol. 36: 1063-1073, 2001. 2. Cardelli, M., Marchegiani, F., Cavallone, L.,

Application Details

Olivieri, F., Giovagnetti, S., Mugianesi, E., Moresi, R., Lisa, R., Franceschi C. A polymorphism of the YTHDF2 gene (1p35) located in an Alu-rich genomic domain is associated with human longevity. J. Gerontol. A Biol. Sci. Med. Sci. 61: 547-556, 2006. 3. Liu, N., Dai, Q., Zheng, G., He, C., Parisien, M., Pan, T. N(6)-methyladenosine-dependent RNA structural switches regulate RNA-protein interactions. Nature 518: 560-564, 2015.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.01 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.