

## Anti-TYMS Polyclonal Antibody

Cat: AC50947

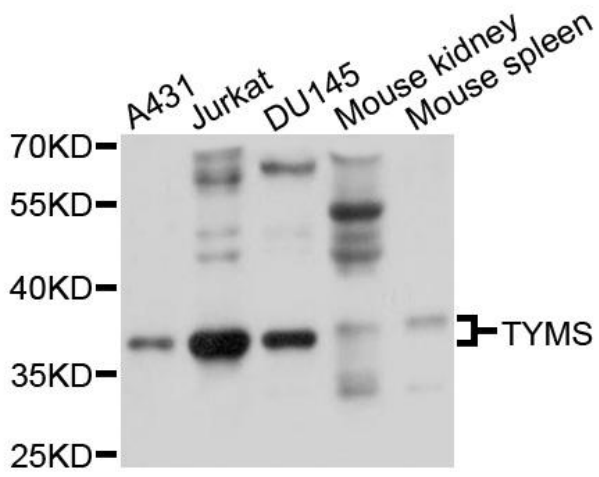
### Summary:

- 【Product name】** : Anti-TYMS antibody      **【Source】** : Rabbit  
**【Isotype】** : IgG      **【Species reactivity】** : Human Mouse Rat  
**【Swiss Prot】** : P04818      **【Gene ID】** : 7298  
**【Calculated】** : MW:36kDa      **【Observed】** : MW:37kDa  
**【Purification】** : Affinity purification  
**【Tested applications】** : WB, IF  
**【Recommended dilution】** : WB 1:500-2000. IF 1:50-200.  
**【WB Positive sample】** : A431, Jurkat, DU145, Mouse kidney, Mouse spleen  
**【Subcellular location】**: Cytoplasm Mitochondrion Mitochondrion inner membrane Mitochondrion matrix  
Nucleus  
**【Immunogen】** : Recombinant protein of human TYMS  
**【Storage】** : Shipped at 4°C. Upon delivery aliquot and store at -20°C

### Background:

Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate (methylene-THF) as a cofactor. This function maintains the dTMP (thymidine-5-prime monophosphate) pool critical for DNA replication and repair. The enzyme has been of interest as a target for cancer chemotherapeutic agents. It is considered to be the primary site of action for 5-fluorouracil, 5-fluoro-2-prime-deoxyuridine, and some folate analogs. Expression of this gene and that of a naturally occurring antisense transcript rTSalpha (GeneID:55556) vary inversely when cell-growth progresses from late-log to plateau phase.

## Verified picture



Western blot analysis with TYMS antibody  
diluted at 1:1000