

ATS4 Rabbit pAb

CatalogNo: YN0416

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA

MW

- 92kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-2000

ELISA 1:5000-20000

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human protein . at AA range: 240-320

Specificity ATS4 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name ADAMTS4 KIAA0688 UNQ769/PRO1563

Protein Name A disintegrin and metalloproteinase with thrombospondin motifs 4 (ADAM-TS 4) (ADAM-TS4) (ADAMTS-4) (ADMP-1) (Aggrecanase-1)

Organism	Gene ID	UniProt ID
Human	9507 ;	O75173 ;
Mouse		Q8BNJ2 ;
Rat		Q9ESP7 ;

Cellular Localization Secreted, extracellular space, extracellular matrix .

Tissue specificity Expressed in brain, lung and heart (PubMed:23897278). Expressed at very low level in placenta and skeletal muscles (PubMed:23897278). Isoform 2: Detected in osteoarthritic synovium (PubMed:16723216, PubMed:23897278).

Function Catalytic activity:Glutamyl endopeptidase; bonds cleaved include 370-Thr-Glu-Gly-Glu-|-Ala-Arg-Gly-Ser-377 in the interglobular domain of mammalian aggrecan.,Caution:Has sometimes been referred to as ADAMTS2.,cofactor:Binds 1 zinc ion per subunit.,Domain:The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.,Domain:The spacer domain and the TSP type-1 domains are important for a tight interaction with the extracellular matrix.,Function:Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover. May play an important role in the destruction of aggrecan in arthritic diseases. Could also be a critical factor in the exacerbation of neurodegeneration in Alzheimer disease. Cleaves aggrecan at the '392-Glu-|-Ala-393' site.,induction:By interleukin-1.,PTM:The precursor is cleaved by a furin endopeptidase.,similarity:Contains 1 disintegrin domain.,similarity:Contains 1 peptidase M12B domain.,similarity:Contains 1 TSP type-1 domain.,tissue specificity:Expressed in brain, lung and heart. Expressed at very low level in placenta and skeletal muscles.,

Validation Data

Contact information

Orders: order@immunoway.com
Support: tech@immunoway.com
Telephone: 877-594-3616 (Toll Free), 408-747-0185
Website: http://www.immunoway.com
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:
ATS4 Rabbit pAb