

## 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

<b>Protein Name</b>	A disintegrin and metalloproteinase with thrombospondin motifs 4 (ADAM-TS 4) (ADAM-TS4) (ADAMTS-4) (ADMP-1) (Aggrecanase-1)		
	<b>Organism</b>	<b>Gene ID</b>	<b>UniProt ID</b>
	Human	<a href="#">9507;</a>	<a href="#">O75173;</a>
	Mouse		<a href="#">Q8BNJ2;</a>
	Rat		<a href="#">Q9ESP7;</a>
<b>Cellular Localization</b>	Secreted, extracellular space, extracellular matrix .		
<b>Tissue specificity</b>	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).		
<b>Function</b>	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.cn@immunoway.com](mailto:order.cn@immunoway.com)  
 Support: [support.cn@immunoway.com](mailto:support.cn@immunoway.com)  
 Telephone: 400-8787-807(China)  
 Website: <http://www.immunoway.com.cn>  
 Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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