

## Thrombin R (S42) polyclonal antibody

Catalog: BS7067

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

Thrombin receptor (also designated protease-activated receptor-1 or PAR-1), PAR-2 and PAR-3 compose a distinct class of G protein-coupled receptors activated by proteolysis. Cleavage of these receptors by proteases occurs within the amino-terminal extracellular domain. Thrombin, a serine protease involved in platelet aggregation and blood coagulation, activates the thrombin receptor, resulting in elevated intracellular calcium levels in platelets. Thrombin also cleaves PAR-3 in vitro, suggesting that PAR-3 may be involved in thrombosis or mitogenesis. Thrombin receptor and PAR-4 appear to account for most thrombin signaling in platelets. Activation of PAR-2 in vitro is induced by trypsin, suggesting that PAR-2 is not an alternative thrombin receptor. Cytokines including TNF- $\alpha$  and IL-1 $\beta$  increase PAR-2 expression, indicating PAR-2 involvement in the acute inflammatory response.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 55 kDa

### Swiss-Prot:

P25116

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

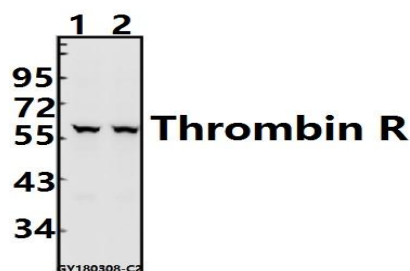
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

Thrombin R (S42) polyclonal antibody detects endogenous levels of Thrombin R protein.

### DATA:



Western blot (WB) analysis of Thrombin R (S42) pAb at 1:500 dilution

Lane1:HepG2 whole cell lysate(40ug)

Lane2:AML-12 whole cell lysate(40ug)

### Note:

For research use only, not for use in diagnostic procedure.

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