

# HABP2 27 kDa light chain Rabbit pAb

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#### **Product Information**

ApplicationWBPrimary AccessionQ14520ReactivityMouse

**Predicted** Human, Rat, Horse, Rabbit

Host Rabbit
Clonality Polyclonal
Calculated MW 62672
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human Hyaluronan-binding

protein 2 27 kDa light chain

Epitope Specificity 271-370/560

**Isotype** IgG

**Purity** affinity purified by Protein A

**Buffer** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

**SUBCELLULAR LOCATION** Secreted. Secreted as an inactive single-chain precursor and is then activated

to a heterodimeric form.

**SIMILARITY** Belongs to the peptidase S1 family. Contains 3 EGF-like domains. Contains 1

kringle domain. Contains 1 peptidase S1 domain.

**SUBUNIT** Heterodimer; disulfide-linked. Heterodimer of a 50 kDa heavy and a 27 kDa

light chain linked by a disulfide bond.

**Post-translational** Proteolytic cleavage at Gly-23 or Met-27 can give rise to the 50 kDa heavy modifications chain and cleavage at Arg-313 or Lys-319 can give rise to the 27 kDa light

chain. The heavy chain can undergo further proteolytic cleavage at Lys-169 or Arg-170 to give rise to 2 inactive 26 kDa fragments and the light chain can undergo further proteolytic cleavage at Arg-480 to give rise to inactive 17 kDa

and 8 kDa fragments.

**Important Note** This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

**Background Descriptions** The protein encoded by this gene is an extracellular serine protease that

binds hyaluronic acid and is involved in cell adhesion. The encoded protein is synthesized as a single chain, but then undergoes an autoproteolytic event to form the functional heterodimer. Further autoproteolysis leads to smaller, inactive peptides. This protease is known to cleave urinary plasminogen activator, coagulation factor VII, and the alpha and beta chains of fibrinogen, but not prothrombin, plasminogen, or the gamma chain of fibrinogen. Two transcript variants encoding different isoforms have been found for this gene.

[provided by RefSeq, Apr 2010]

#### **Additional Information**

**Gene ID** 3026

**Other Names** Factor VII-activating protease, FSAP, 3.4.21.-, FVII activator, Hepatocyte

growth factor activator-like protein, Hyaluronan-binding protein 2, Plasma hyaluronan-binding protein, PHBP, Plasma hyaluronan-binding serine protease, PHBSP, Factor VII-activating protease 50 kDa N-terminal heavy chain, Factor VII-activating protease 50 kDa N-terminal heavy chain alternate form, Factor VII-activating protease 27 kDa C-terminal light chain, Factor VII-activating protease 27 kDa C-terminal light chain alternate form, HABP2 {ECO:0000303|PubMed:26222560, ECO:0000312|HGNC:HGNC:4798}

**Target/Specificity** Ubiquitously expressed.

**Dilution** WB=1:500-2000

**Storage** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

#### **Protein Information**

Name HABP2 {ECO:0000303|PubMed:26222560, ECO:0000312|HGNC:HGNC:4798}

**Function** Cleaves the alpha-chain at multiple sites and the beta-chain between 'Lys-53'

and 'Lys-54' but not the gamma-chain of fibrinogen and therefore does not initiate the formation of the fibrin clot and does not cause the fibrinolysis directly (PubMed:11217080). It does not cleave (activate) prothrombin and plasminogen but converts the inactive single chain urinary plasminogen activator (pro-urokinase) to the active two chain form (PubMed:10754382, PubMed:11217080). Activates coagulation factor VII (Probable). May function as a tumor suppressor negatively regulating cell proliferation and cell

migration (PubMed: 26222560).

**Cellular Location** Secreted. Note=Secreted as an inactive single-chain precursor and is then

activated to a heterodimeric form

**Tissue Location** Ubiquitously expressed.

## **Background**

The protein encoded by this gene is an extracellular serine protease that binds hyaluronic acid and is involved in cell adhesion. The encoded protein is synthesized as a single chain, but then undergoes an autoproteolytic event to form the functional heterodimer. Further autoproteolysis leads to smaller, inactive peptides. This protease is known to cleave urinary plasminogen activator, coagulation factor VII, and the alpha and beta chains of fibrinogen, but not prothrombin, plasminogen, or the gamma chain of fibrinogen. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2010]

### **Images**

Sample:

Kidney (Mouse) Lysate at 40 ug

Primary: Anti-HABP2 27 kDa light chain (AP50906) at

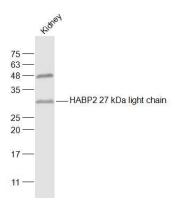
1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000

dilution

Predicted band size: 27 kD

Observed band size: 30 kD



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.