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## TMPRSS2 Rabbit pAb

Catalog Number: bs-41361R

Target Protein: TMPRSS2

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), ELISA (1:5000-10000)

Reactivity: Human (predicted:Mouse, Rat)

Predicted MW: 54 kDa

Entrez Gene: 7113

Swiss Prot: O15393

Source: Recombinant human TMPRSS2 protein: 108-492/492.

Purification: affinity purified by Protein A

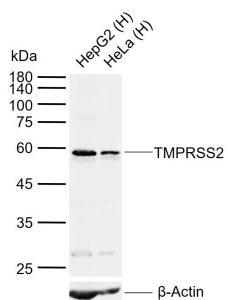
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

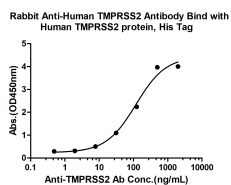
**Background:** Extracellular proteases mediate the digestion of neighboring extracellular matrix components in initial tumor growth, allow desquamation of tumor cells into the surrounding environment, provide the basis for invasion of basement membranes in targeted metastatic organs and are required for release and activation of many growth and angiogenic factors (1,2). The TMPRSS2 gene encodes a 492 amino acid multimeric serine protease, which is mainly expressed in the mouse prostate and kidney, and is also expressed in the human small intestine, prostate, colon, stomach and salivary gland (3,4). TMPRSS2 contains several domains, including a serine protease domain of the S1 family, a scavenger receptor cysteine-rich domain of group A, an LDL receptor class A domain and a transmembrane domain (3). TMPRSS2 is expressed as a full length form and a cleaved protease domain (5) and its expression is increased by androgenic hormones. TMPRSS2 is also expressed in prostate carcinoma, suggesting that it may play a role in prostate carcinogenesis (6).

### VALIDATION IMAGES

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Sample: Lane 1: Human HepG2 cell lysates Lane 2: Human HeLa cell lysates Primary: Anti-TMPRSS2 (bs-41361R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 54 kDa Observed band size: 58 kDa



Measured by its binding ability in a indirect ELISA. Immobilized Human TMPRSS2 protein, His Tag (Cat. bs-41361P) at 2 µg/mL (100 µL/well) can bind Rabbit Anti-Human TMPRSS2 Antibody, the EC50 is 118.5 ng/mL.