

Anti-TMPRSS2 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat)
Molecular Weight:	Theoretical: 54 kDa. Actual: 58 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Lane 1: Human HepG2 cell lysates Lane 2: Human HeLa cell lysates Primary: Anti-TMPRSS2 (TMAB-13615) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
	Predicted band size: 54 kDa Observed band size: 58 kDa
	2. Measured by its binding ability in a indirect ELISA. Immobilized Human TMPRSS2 protein, His Tag at 2 µg/mL (100 µL/well) can bind Rabbit Anti-Human TMPRSS2 Antibody, the EC50 is 118.5 ng/mL.
	Application: WB,ELISA
Recommended	WB: 1:500-2000; ELISA: 1:5000-10000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: human TMPRSS2 protein
Antigen Species:	Human
Gene ID:	7113
Uniprot ID:	O15393

Research 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).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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