bs-7536R **[Primary Antibody]**

SERPINA12 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 145264 **SWISS:** Q8IW75

Target: SERPINA12

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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: May modulates insulin action conceivably only in the presence of its yet undefined target proteases in white adipose tissues. Serpins are the largest and most diverse family of protease inhibitors. Most serpins control proteolytic cascades, certain serpins do not inhibit enzymes, but instead perform diverse functions such as storage (ovalbumin, in egg white), hormone carriage proteins (thyroxine-binding globulin, cortisol-binding globulin) and tumor suppressor genes (maspin). Most inhibitory serpins target chymotrypsin-like serine proteases. These enzymes are defined by the presence of a nucleophilic serine residue in their catalytic site. Some serpins inhibit other classes of protease. A number of such serpins have been shown to target cysteine proteases. These enzymes differ from serine proteases in that they are defined by the presence of a nucleophilic cysteine residue, rather than a serine residue, in their catalytic site.
SerpinA12, also known as OL-64, Visceral adipose tissue-derived serine protease inhibitor, Vaspin, Visceral adipose-specific serpin and SERPINA12, is a secreted protein which belongs to the serpin family. SerpinA12 / Vaspin is expressed in visceral adipose tissues. It may modulates insulin action conceivably only in the presence of its yet undefined target proteases in white adipose tissues. SerpinA12 / Vaspin may be the compensatory molecule in the pathogenesis of metabolic syndrome and SerpinA12 / Vaspin recombinant protein or vaspin-mimicking agents such as vaspin analogs, antibodies or small molecule agents may be the link to drug discovery and development.

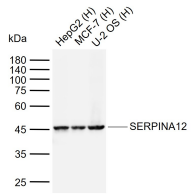
Applications: **WB** (1:500-2000)
ELISA (1:5000-10000)

Reactivity: Human (predicted: Mouse, Rat)

Predicted MW.: 45 kDa

Subcellular Location: Secreted

VALIDATION IMAGES



Sample: Lane 1: Human HepG2 cell lysates Lane 2: Human MCF-7 cell lysates Lane 3: Human U-2 OS cell lysates Primary: Anti-SERPINA12 (bs-7536R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kDa Observed band size: 45 kDa

SELECTED CITATIONS

- **[IF=9.5]** Chanmi Cho. et al.Blockade of the vaspin–AP-1 axis inhibits arthritis development.EXPERIMENTAL & MOLECULAR MEDICINE.2025 Mar 3. Western blot,IHC ;Mouse. 40025171
- **[IF=2.8]** Yang Huan. et al. Potential prognostic biomarker SERPINA12: implications for hepatocellular carcinoma. CLIN TRANSL ONCOL. 2024 Sep;:1-15 IHC ;Human. 39235554
- **[IF=1.07]** Bao et al. Expression of vaspin in the joint and the levels in the serum and synovial fluid of patients with osteoarthritis. (2014) Int.J.Clin.Exp.Me. 7:3447-53 IHC ;Human. 25419381