bs-20815R **[Primary Antibody]**

ADAM2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

Target: ADAM2

Immunogen: KLH conjugated synthetic peptide derived from mouse ADAM2: 451-550/735. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: ADAM-2, also known as PH-30?and Fertilin-? was first described as a sperm-egg fusion protein from guinea pig. A member of the metalloproteinase family containing disintigrin-like domains (ADAMs), the function of ADAM-2 is still poorly understood. Unlike ADAM-1, ADAM-2 does not contain the canonical HExxHxxxxxH zinc metalloproteinase motif, and is not thought to be proteolytically active. Like the other ADAMs, ADAM-2 domain structure consists of a signal sequence followed by a propeptide domain, a metalloproteinase domain, a disintegrin domain cysteine-rich domain, an EGF-like domain, a transmembrane domain, and a cytoplasmic domain. Three isoforms of ADAM-2 are reported to date, which differ in the beginning of the metalloproteinase domain and cysteine-rich domain. The sequences are coded from intronless genes. The longest ADAM-2 message encodes a protein of 735 amino acids, with a predicted mass of 82.5 kDa and a pI of 5.73. The 716 amino acid form of ADAM-2 has a deletion in the start of the metalloproteinase domain, relative to the longer form, and has a predicted mass of 80.2 kDa and pI of 5.75. The shorter form of 579 amino acids shared the deletion in the MP domain, and also has a deletion in the cystein-rich domain. Localized on the surface of sperm, the ADAM-2 isoforms are thought to form a heterodimer with ADAM-1 (fertilin-a), and facilitate sperm-egg fusion, although there is some controversy about the precise actions the proteins play. Integrin a6? on the egg surface is thought to dock with a QDECD motif in the disintegrin domain of ADAM-2, and there is some speculation that ADAM-1/ADAM-2 heterodimewr initiated ADAM-3 production on the cell surface.

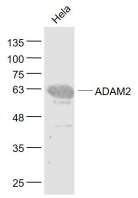
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse)

Predicted MW.: 63/80 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Hela(Human) Cell Lysate at 30 ug
Primary: Anti- ADAM2 (bs-20815R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 63/80 kD Observed band size: 63 kD