bs-17678R **[Primary Antibody]**

SPIRE2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 84501 **SWISS:** Q8WWL2

Target: SPIRE2

Immunogen: KLH conjugated synthetic peptide derived from human SPIRE2: 231-330/714.

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: Spir-2 is a 714 amino acid protein belonging to the spire family. Spir-2 is a cytoplasmic protein that contains one KIND domain and three WH2 domains. Spir-2 binds to actin via the WH2 domains and acts as an actin nucleation factor. Spir-2 is involved in vesicle transport and acts as a link between actin organization and intracellular transport. Spir-2 is expressed as four isoforms that are produced by alternative splicing events. The gene that encodes Spir-2 maps to human chromosome 16, which encodes over 900 genes and approximately 90 million base pairs, making up nearly 3% of human cellular DNA. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, though through the CREBBP gene which encodes a critical CREB binding protein. Signs of Rubinstein-Taybi include mental retardation and predisposition to tumor growth and white blood cell neoplasias. Crohn's disease is a gastrointestinal inflammatory condition associated with chromosome 16 through the NOD2 gene.

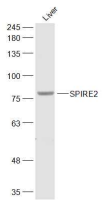
Applications: **WB** (1:500-2000)

Reactivity: Mouse (predicted: Human, Rat, Rabbit, Pig, Sheep, Cow, Chicken, Dog, Horse)

Predicted MW.: 80 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Liver (Mouse) Lysate at 40 ug Primary: Anti-SPIRE2 (bs-17678R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 80 kD Observed band size: 80 kD

SELECTED CITATIONS

- **[IF=5.413]** Wang HH et al. Rab23/Kif17 regulate oocyte meiotic progression by modulating tubulin acetylation and actin dynamics. Development. 2019 Feb 4;146(3). WB ;Mouse. 30696709