### bs-15458R

## [ Primary Antibody ]

# BIOSS ANTIBODIES

# Hephaestin Rabbit pAb

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(predicted: Rat)

Applications: WB (1:500-2000)

Reactivity: Human, Mouse

Subcellular Cell membrane

Predicted MW.: 128 kDa

- DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

GenelD: 9843 SWISS: Q9BQS7

Target: Hephaestin

**Immunogen:** KLH conjugated synthetic peptide derived from human

Hephaestin: 21-120/1158. < Extracellular >

**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

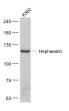
freeze/thaw cycles.

**Background:** Hephaestin is a single-pass type I membrane protein that belongs

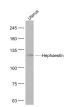
to the multicopper oxidase family of proteins. Hephaestin, a copper-dependant ferroxidase protein, is crucial for iron exiting intestinal enterocytes into the circulation. It mediates the movement of iron across the basolateral membrane in conjunction with ferroportin 1. This is an important link between iron and copper metabolism in mammalian systems, as copper deficiency leads to reduced hephaestin and reduced iron absorption resulting in anemia. Hephaestin can bind six copper ions per monomer and is regulated by the homeobox transcription factor CDX2. Increased levels of iron leads to an increase in CDX2 expression and thus Hephaestin. Hephaestin is primarily detected in the intestine, but is also expressed in colon, breast, bone trabecural cells and

fibroblasts.

VALIDATION IMAGES



Sample: K562(Human) Cell Lysate at 30 ug Primary: Anti- Hephaestin (bs-15458R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 128 kD Observed band size: 128 kD



Sample: Uterus (Mouse) Lysate at 40 ug Primary: Anti- Hephaestin (bs-15458R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 128 kD Observed band size: 128 kD

#### — SELECTED CITATIONS –

• [IF=5.008] Rychtarcikova, Zuzana, et al. "Tumor-initiating cells of breast and prostate origin show alterations in the expression of genes related to iron metabolism." Oncotarget (2016). WB; Human. 28031527