

bs-15458R**[Primary Antibody]****BioSS**
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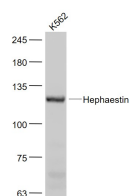
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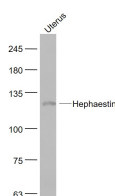
400-901-9800

Hephaestin Rabbit pAb**— DATASHEET —**

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		
GeneID: 9843	SWISS: Q9BQS7	
Target: Hephaestin		
Immunogen: KLH conjugated synthetic peptide derived from human Hephaestin: 21-120/1158.		
Purification: affinity purified by Protein A		Reactivity: Human, Mouse (predicted: Rat)
Concentration: 1mg/ml		Predicted MW.: 128 kDa
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.		Subcellular Location: Cell membrane
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 trabecular 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