

**HRP tag**  
**Recombinant Rabbit Monoclonal Antibody**  
**Product Datasheet**

**Catalog#** BX00094

**Clone#** RR698

**Predicted Molecular Wt:** 39kDa  
**Species Cross-reactivity:** Species independent  
*Species cross-reactivity determined by WB*  
**Applications:** WB IF/ICC FC

**Purity:** ProA affinity purified IgG  
**Form:** Liquid  
**Swissprot ID:** P00433

**Background:**

Horseradish Peroxidase (HRP) is an enzyme commonly used as an indicator for chemical reactions which produce peroxide. The enzyme is routinely conjugated to antibodies for use in enzyme-based immunoassay systems. HRP functions in the removal of H<sub>2</sub>O<sub>2</sub> (hydrogen peroxide), oxidation of toxic reductants, biosynthesis and degradation of lignin, suberization, auxin catabolism, response to environmental stresses such as wounding, pathogen attack and oxidative stress. These functions might be dependent on each isozyme/isoform in each plant tissue.

**Immunogen:**

Full length native protein (purified) corresponding to HRP (Horseradish).

**Storage Buffer:**

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

**Storage conditions:**

-20°C.

**Storage instructions:**

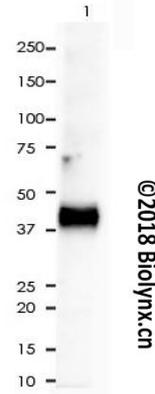
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

**Recommended Dilutions:**

WB: 1:5,000 - 1:10,000  
 IF/ICC: 1:200  
 FC: 1:50

**Background References:**

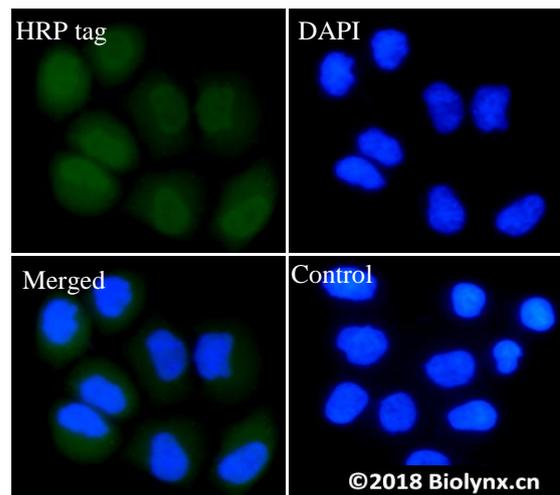
- Sagiv Y et al. J Exp Med 204:921-8 (2007).
- Kienzle C et al. J Cell Biol 206:635-54 (2014).



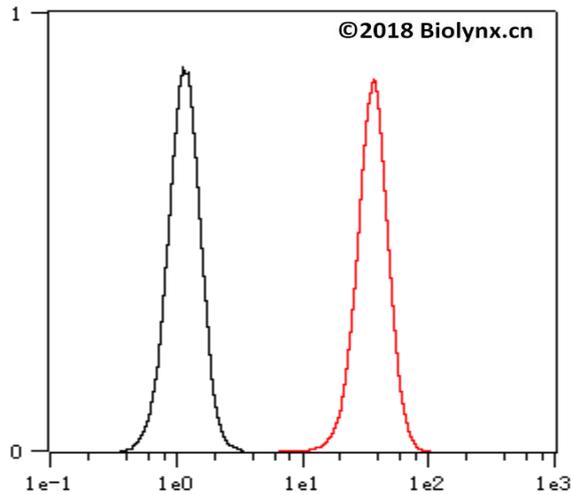
All lanes: Anti-HRP antibody at 1:10,000 dilution  
 Predicted MW: 39 kDa  
 Observed MW: 39 kDa

Lane 1: HRP protein

Lysate at 20 ng per lane  
 2nd Ab:  
 GAR HRP(H+L) 1:5,000  
 Exposure: 60s



RR698 staining HRP in HeLa cells by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with anti-actin (RR608) antibody (1:200) conjugated to HRP at 4°C. FITC-conjugated RR698 was used as the secondary antibody (1:50). DAPI (blue) was used as the nuclear counter stain. Control: primary antibody, anti-actin (RR608) antibody (1:200) and PBS.



Overlay histogram showing HeLa cells stained with RR698 (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR608, 1:50 dilution) conjugated to HRP in 1x PBS/1% BSA for 60 min at room temperature. The secondary antibody used was RR698 conjugated with FITC at 1:50 dilution for 60 min at room temperature. Unlabelled sample (Black) was used as a control.

Product QC'd by:



For research use only. Not for use in diagnostic or therapeutic applications.