

## Anti-ORP150 Antibody (6Q346)

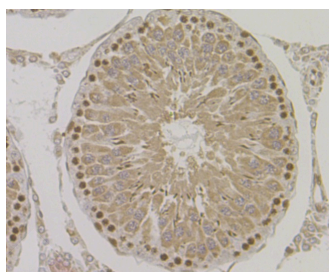
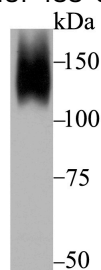
### Product Details

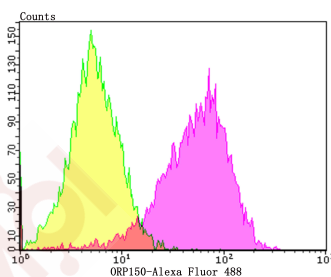
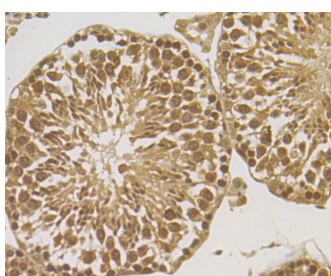
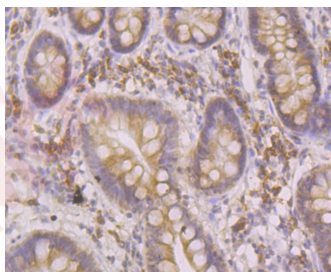
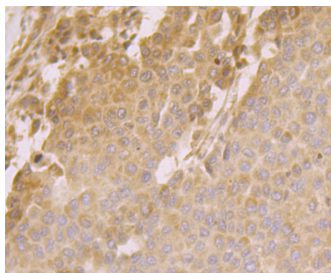
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 111 kDa.
Clone:	6Q346
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of ORP150 on mouse prostate tissue lysate using anti-ORP150 antibody at 1/5,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-ORP150 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-ORP150 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human small intestine tissue using anti-ORP150 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-ORP150 antibody. Counter stained with hematoxylin.
6. Flow cytometric analysis of HepG2 cells with ORP150 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.





Application: FCM,IHC,WB  
Recommended WB: 1:5000-10000; IHC: 1:50-200; FCM: 1:50-100

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein: human ORP150 aa 800-950  
Antigen Species: human  
Uniprot ID: Q9Y4L1  
Synonyms: hypoxia up-regulated 1;ORP-150;GRP-170;HSP12A;ORP150;Grp170

### Research Background

ORP150, also known as HYOU1 (hypoxia upregulated 1), is a 999 amino acid protein that localizes to the lumen of the endoplasmic reticulum (ER) and is a member of the heat shock protein 70 (HSP 70) family. ORP150 is highly expressed in tissues that have well-developed ERs and a large number of secretory proteins (such as liver and

pancreas). It is expressed at lower levels in kidney and brain, and plays an essential role in cytoprotective cellular responses to hypoxia (oxygen deprivation). Specifically, ORP150 participates in protein folding and secretion in the ER and functions to protect cells from hypoxia-induced apoptosis, thereby playing a crucial role in cell survival. ORP150 expression is upregulated in a variety of tumors, such as breast cancer, suggesting an important role in tumorigenesis. The gene encoding ORP150 has two translation initiation sites, resulting in a truncated transcript that lacks an ER signal peptide, but is thought to function as a housekeeping protein in the cytoplasm.

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