



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Mouse Anti Human Huntingtin

With HRP-conjugated Secondary Antibody

**Catalog No.**

DS-MB-01571

**Target Species**

Human

**Isotype**

IgG1

### Synonyms

IT15

### Preparation

**Immunogen:** Huntingtin fragment from amino acids 181 - 810 as a fusion protein.

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Ascites - liquid

**Preservative Stabilizers:** None

**Approx. Protein Concentration:** IgG concentration 1.0 mg/ml

### Specificity

DS-MB-01571 is specific for Huntingtin protein and reacts with an epitope between amino acids 181 and 810. A band of approximately 350-400 kDa is observed in Western blotting. Huntingtin is found in the perinuclear region along with microtubules, and in the centrosomal region along with gamma-tubulin. It is necessary for neuronal survival and is involved in synaptic vesicle trafficking, microtubule binding and may also have a role in apoptosis. In huntington disease, neuronal cells with the mutant form of huntingtin possess intranuclear aggregations of the N-terminal fragment, causing damaging inclusions in perinuclear locations and striatal neuron cell death. Wild-type huntingtin and anti-huntingtin reduce aggregation and cellular toxicity of the mutant huntingtin form in mammalian cell models of HD. Huntingtin is known to interact with GAPDH, HAP-1, SP1 and TAFII130.

**Species Crossreactivity:** Reacts with: Mouse, Hamster, Monkey, Rat

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### Storage

Store at -20°C only. Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life:** 18 months from date of shipment

### Applications

**Table Summary of antibody applications and working conditions**

<b>Options Functions</b>	<b>YES</b>	<b>NO</b>	<b>Not determined</b>	<b>Recommended Work dilution or concentration</b>
ELISA	•			1/500 - 1/5,000
Western Blotting	•			1/500 - 1/5,000
IHC – Paraffin (1)	•			1/500 - 1/5,000
IHC – Frozen	•			1/500 - 1/5,000
Immunoprecipitation	•			1/500 - 1/5,000

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

### References

1. Wilkinson, F. L. *et al.* (1999) Localization of rabbit huntingtin using a new panel of monoclonal antibodies. *Molecular Brain Research*. 69: 10-20.

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