MRPL11 (D68F2) XP® Rabbit mAb

**Applications**: W—Western  IP—Immunoprecipitation  IHC—Immunohistochemistry  ChIP—Chromatin Immunoprecipitation  IF—Immunofluorescence  F—Flow cytometry  E-P—ELISA-Peptide

**Species Cross-Reactivity**: H—human  M—mouse  R—rat  Hm—hamster  Mk—monkey  Mi—mink  C—chicken  Dm—D. melanogaster  X—Xenopus  Z—zebrafish  B—bovine  Dg—dog  Pg—pig  Sc—S. cerevisiae  Ce—C. elegans  Hr—Horse  All—all species expected  Species enclosed in parentheses are predicted to react based on 100% homology.

**Storage**: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**
- Western blotting 1:1000
- Immunoprecipitation 1:50
- Immunohistochemistry (Paraffin) 1:100
- Unmasking buffer: Citrate
- Antibody diluent: SignalStain® Antibody Diluent #8112
- Immunofluorescence (IF-IC) 1:100

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

**Background**: A subset of mitochondrial proteins are synthesized on the ribosomes within mitochondria (1). The 55S mammalian mitochondrial ribosomes are composed of a 28S small subunit and a 39S large subunit (1). Over 40 protein components have been identified from the large subunit of the human mitochondrial ribosome (1). The mitochondrial ribosomal protein L11 (MRPL11) is one such component (1). In animals, plants and fungi, this protein is translated from a gene in the nuclear genome (2).

**Specificity/Sensitivity**: MRPL11 (D68F2) XP® Rabbit mAb detects endogenous levels of total MRPL11 protein.

**Source/Purification**: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human MRPL11.

**Background References**:

**Storage**: Store at –20°C.

**Recommended Antibody Dilutions**:
- Western blotting 1:1000
- Immunoprecipitation 1:50
- Immunohistochemistry (Paraffin) 1:100
- Unmasking buffer: Citrate
- Antibody diluent: SignalStain® Antibody Diluent #8112
- Immunofluorescence (IF-IC) 1:100

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**Important**: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® at 4°C with gentle shaking, overnight.

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Confocal immunofluorescent analysis of HeLa cells using MRPL11 (D68F2) XP® Rabbit mAb (green) showing colocalization with mitochondria that have been labeled with MitoTracker® Red CMXRos (red). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).