

## Product Datasheet

### ATF4 Antibody (HRP) (orb150635)

|                      |                                                                                                                            |
|----------------------|----------------------------------------------------------------------------------------------------------------------------|
| Catalog Number       | orb150635                                                                                                                  |
| Category             | Antibodies                                                                                                                 |
| Description          | Mouse monoclonal antibody against ATF4 conjugated to HRP                                                                   |
| Target               | ATF4                                                                                                                       |
| Clonality            | Monoclonal                                                                                                                 |
| Species/Host         | Mouse                                                                                                                      |
| Isotype              | IgG2a                                                                                                                      |
| Conjugation          | HRP                                                                                                                        |
| Reactivity           | Human, Rat                                                                                                                 |
| Concentration        | 1 mg/ml                                                                                                                    |
| Buffer/Preservatives | 73.64mM Carbonate, 54.55mM Ethanolamine, 45.45mM Cyanoborohydride, 18.18mM Sodium Hydroxide 0.23mM Citrate                 |
| Purification         | Protein G Purified                                                                                                         |
| Immunogen            | Fusion protein amino acids 25-327 of human ATF4. 86% identical to rat, and 85% identical to mouse. 50% identity with ATF5. |
| UniProt ID           | <b>P18848</b>                                                                                                              |
| MW                   | 60kDa                                                                                                                      |
| Tested applications  | ICC, IF, IHC, WB                                                                                                           |
| Dilution range       | WB (1:1000)                                                                                                                |

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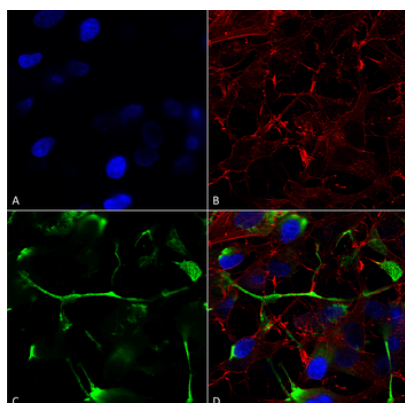
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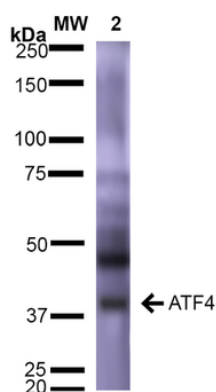
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|                          |                                                                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application notes</b> | 1 µg/ml was sufficient for detection of ATF4 in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody. |
| <b>Specificity</b>       | Detects ~60kDa. Does not cross-react with ATF5.                                                                                                                        |
| <b>Clone Number</b>      | N360A/24 (Formerly sold as S360A-24)                                                                                                                                   |
| <b>Storage</b>           | Conjugated antibodies should be stored according to the product label                                                                                                  |
| <b>Note</b>              | For research use only                                                                                                                                                  |
| <b>Entrez</b>            | <b>468</b>                                                                                                                                                             |
| <b>NCBI</b>              | <b>NP_001666.2</b>                                                                                                                                                     |
| <b>Expiration Date</b>   | 12 months from date of receipt.                                                                                                                                        |



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-ATF4 Monoclonal Antibody, Clone N360A/24. Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-ATF4 Monoclonal Antibody at 1:200 for overnight at 4°C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) ATF4 Antibody (D) Composite.



Western Blot analysis of Rat Brain showing detection of ~39 kDa (isoform 2) ATF4 protein using Mouse Anti-ATF4 Monoclonal Antibody, Clone N360A/24. Lane 1: Molecular Weight Ladder (MW). Lane 2: Rat Brain. Load: 15 µg. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-ATF4 Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 5 min at RT. Predicted/Observed Size: ~39 kDa (isoform 2).

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