

## E2F4 (Transcription Factor) Antibody

Mouse Monoclonal Antibody [Clone E2F4/4224]

| Catalog No       | Format                                        | Size   |
|------------------|-----------------------------------------------|--------|
| 1874-MSM14-P0    | Purified Ab with BSA and Azide at 200ug/ml    | 20 ug  |
| 1874-MSM14-P1    | Purified Ab with BSA and Azide at 200ug/ml    | 100 ug |
| 1874-MSM14-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

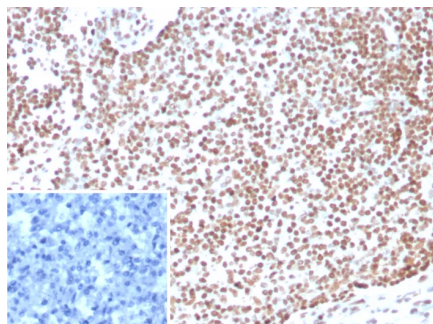
| Applications               | Tested Dillution | Note                                                                                                                                                                              |
|----------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunohistochemistry (IHC) | 1-2ug/ml         | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

### Product Details

|                        |                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------|
| Clone                  | E2F4/4224                                                                                                   |
| Gene Name              | E2F4                                                                                                        |
| Immunogen              | Recombinant fragment (around aa1-100) of human E2F4 protein (exact sequence is proprietary)                 |
| Host                   | Mouse                                                                                                       |
| Clonality              | Monoclonal                                                                                                  |
| Isotype / Light Chain  | IgG1 / Kappa                                                                                                |
| Mol. Weight of Antigen | 60kDa                                                                                                       |
| Cellular Localization  | Nucleus.                                                                                                    |
| Species Reactivity     | Human                                                                                                       |
| Positive Control       | Brain Found in all tissue examined including heart kidney and pancreas. liver lung Placenta skeletal muscle |

\*Optimal dilution for a specific application should be determined.

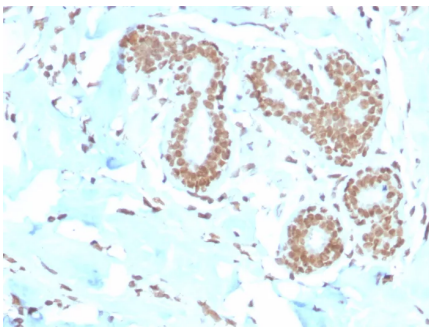
### Product Images for E2F4 (Transcription Factor) Antibody



Formalin-fixed, paraffin-embedded human lymph node stained with E2F4 Mouse Monoclonal Antibody (E2F4/4224). Inset: PBS instead of primary antibody; secondary only negative control.



Analysis of Protein Array containing more than 19,000 full-length human proteins using E2F4 Mouse Monoclonal Antibody (E2F4/4224). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human breast carcinoma stained with E2F4 Mouse Monoclonal Antibody (E2F4/4224). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

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### Specificity & Comments

The human retinoblastoma gene product appears to play an important role in the negative regulation of cell proliferation. Functional inactivation of Rb can be mediated either through mutation or as a consequence of interaction with DNA tumor virus-encoded proteins. Of all the Rb associations described to date, the identification of a complex between Rb and the transcription factor E2F most directly implicates Rb in regulation of cell proliferation. E2F was originally identified through its role in transcriptional activation of the adenovirus E2 promoter. Sequences homologous to the E2F binding site have been found upstream of a number of genes that encode proteins with putative functions in the G1 and S phases of the cell cycle. E2F-1 is a member of a broader family of transcription regulators including E2F-2, E2F-3, E2F-4, E2F-5, E2F-6 and E2F-7 each of which forms heterodimers with a second protein, DP-1, forming an active E2F transcriptional regulatory complex.

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### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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### Research Areas

Colon Cancer, Signal Transduction, Transcription Factors

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