

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects recombinant human NFIL3 in Direct ELISA.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 1095812
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human NFIL-3 Lys140-Gly462 Accession # Q16649
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

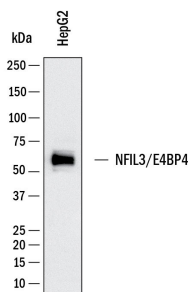
## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the Technical Information section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	2 µg/mL	HepG2 human hepatocellular carcinoma cell line
<b>Simple Western</b>	20 µg/mL	HepG2 human hepatocellular carcinoma cell line

## DATA

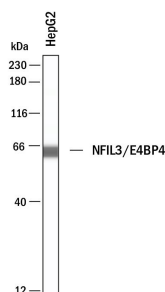
### Western Blot



#### Detection of Human NFIL3/E4BP4 by Western Blot.

Western Blot shows lysates of HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 2 µg/ml of Mouse Anti-Human NFIL3/E4BP4 Monoclonal Antibody (Catalog # MAB11657) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for NFIL3/E4BP4 at approximately 60 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

### Simple Western



#### Detection of Human NFIL3/E4BP4 by Simple Western™.

Simple Western shows lysates of HepG2 human hepatocellular carcinoma cell line, loaded at 0.5 mg/ml. A specific band was detected for NFIL3/E4BP4 at approximately 63 kDa (as indicated) using 20 µg/mL of Mouse Anti-Human NFIL3/E4BP4 Monoclonal Antibody (Catalog # MAB11657). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

NFIL3 (Nuclear Factor, Interleukin 3 Regulated), also called E4BP4 (adenovirus E4 promoter binding protein 4), is an approximately 58 kDa transcription factor of the bZIP (basic leucine zipper) family. It is a transcriptional regulator expressed in T and pro-B lymphocytes and cardiomyocytes, binds IL-3 and promotes as a homodimer, and enhances cell survival. NFIL3 has also been shown to be involved in the development of Innate Lymphoid Cells (ILCs; 1,2). The 462 amino acid (aa) human NFIL3 contains a basic DNA binding domain (aa 73-95), a leucine zipper (aa 96-124), and a transcriptional repression domain (aa 299-363) that is potentially regulated by phosphorylation at Ser301 and Ser353. Within the region used as an immunogen, human NFIL3 shares 83% aa sequence identity with mouse and rat NFIL3.

### References:

- Seillet, C. *et al.* (2014) J Exp Med. **211**:1733.
- Geiger, T.L. *et al.* (2014) J Exp Med. **211**:1723.