**Basic Information**

- **Catalog Number:** 14147-1-AP
- **GenBank Accession Number:** BC048097
- **Recommended Dilutions:** WB: 1:500-1:2000

**Size:** 20 μg/150 μl

**Source:** Rabbit

**Isotype:** IgG

**Purification Method:** Antigen affinity purification

**Immunogen Catalog Number:** AG5316

**GenBank Accession Number:** BC048097

**GeneID (NCBI):** 2395

**Calculated MW:** 23 kDa

**Observed MW:** 14 kDa

**Applications**

- **Tested Applications:** WB, ELISA
- **Cited Applications:** IHC, WB
- **Species Specificity:** Human
- **Cited Species:** Human

**Background Information**

FXN, also named as FRDA, X25, m81-FXN, d-FXN, m78-FXN and i-FXN, belongs to the frataxin family. It promotes the biosynthesis of heme and assembly and repair of iron-sulfur clusters by delivering Fe2+ to proteins involved in these pathways. FXN may play a role in the protection against iron-catalyzed oxidative stress through its ability to catalyze the oxidation of Fe2+ to Fe3+. The oligomeric form but not the monomeric form has in vitro ferroxidase activity. FXN is cleaved to be 4 chains. The mature form of FXN is 14kd or 18kd.

**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
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<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Karine Choquet</td>
<td>26657514</td>
<td>Brain</td>
<td>WB</td>
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<tr>
<td>Joseph F Nabhan</td>
<td>26883577</td>
<td>Sci Rep</td>
<td>WB, IHC</td>
</tr>
</tbody>
</table>

**Storage**

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20°C storage.

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**For technical support and original validation data for this product, please contact:**

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com

W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**
MDA-MB-453a cells were subjected to SDS PAGE followed by western blot with 14147-1-AP/FXN antibody at dilution of 1:500 incubated at room temperature for 1.5 hours.