**Basic Information**

- **Catalog Number:** 17221-1-AP
- **Size:** 150μL, Concentration: 467 μg/ml by Bradford method using BSA as the standard
- **Source:** Rabbit
- **Isotype:** IgG
- **Immunogen Catalog Number:** AG11044
- **GenBank Accession Number:** BCO32350
- **GeneID (NCBI):** 3122
- **Full Name:** major histocompatibility complex, class II, DR alpha
- **Calculated MW:** 254 aa, 29 kDa
- **Observed MW:** 32-34 kDa
- **Purification Method:** Antigen affinity purification
- **Recommended Dilutions:**
  - WB: 1:2000-1:12000
  - IP: 0.5-4.0 μg for IP and 1:500-1:2000 for WB
  - IHC: 1:50-1:500

**Applications**

- **Tested Applications:** FC, IHC, IP, WB, ELISA
- **Cited Applications:** IF, IHC
- **Species Specificity:** human, rat
- **Cited Species:** human, rat

**Note-IHC:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Positive Controls:**
- **WB:** Raji cells, rat spleen tissue, Daudi cells
- **IP:** Raji cells,
- **IHC:** human tonsillitis tissue, human kidney tissue, human tonsil tissue

**Background Information**

**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pin-Yuan Chen</td>
<td>31649684</td>
<td>Front Immunol</td>
<td>IF</td>
</tr>
<tr>
<td>Zhaohui Chen</td>
<td>33033240</td>
<td>Nat Commun</td>
<td>IF</td>
</tr>
<tr>
<td>Mian Zhou</td>
<td>32677895</td>
<td>Mol Med</td>
<td>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**

---

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.
Various lysates were subjected to SDS PAGE followed by western blot with 17221-1-AP (HLA-DRA antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 17221-1-AP (HLA-DRA Antibody) at dilution of 1:200 (under 40x lens).

Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 17221-1-AP (HLA-DRA Antibody) at dilution of 1:200 (under 10x lens).

IP result of anti-HLA-DRA (IP:17221-1-AP, 4ug; Detection:17221-1-AP 1:1000) with Raji cells lysate 3200 ug.

3X10^6 Raji cells were stained with 0.20ug HLA-DRA antibody (17221-1-AP, red) and control antibody (blue). Fixed with 90% MeOH.