



## Anti-FcεR1α by Western Blot

Test Code: 30002

**For Research Use Only**

<b>CPT CODE</b>	
<b>SPECIMEN REQUIREMENT</b>	
Type:	Serum
Volume:	2 mL
Handling:	
Storage:	Ambient
Shipping:	No special shipping requirements
<b>METHODOLOGY</b>	Western Blot
<b>SET-UP SCHEDULE</b>	Call for set-up schedule
<b>STANDARD TURNAROUND TIME</b>	2 weeks from receipt of Specimen
<b>CLINICAL UTILITY</b>	<p>An autoimmune etiology is involved in a number of diseases, including allergic diseases such as chronic urticaria and asthma. Auto-antibodies against IgE, FcεRI or FcεRII (CD23) have been linked to these diseases. These auto-antibodies are presumed to bind the high affinity IgE Fc receptor (FcεRI) on the surface of mast cells and basophils, which initiates a signal transduction cascade that results in the secretion of histamine and other mediators. These FcεRI receptors are formed as a complex between the alpha and beta subunits, with the alpha subunit having an extracellular domain that may be targeted by auto-antibodies. In clinical and method development studies, there is a need for an autoantibody assay detecting the antibodies specific to the extracellular domain of the FcεRIα. This anti-FcεRIα by Western Blot assay detects IgG antibodies specific to FcεRIα.</p>